

A

B

C

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
AFF	ABOVE FINISHED FLOOR
AC	AIR CONDITIONING UNIT
ARCH	ARCHITECT / ARCHITECTURAL
BA	BALL VALVE
BHP	BRAKE HORSEPOWER
BG	BELOW GRADE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CKT	CIRCUIT
CO	CLEAN OUT
CONN	CONNECTION
CONT	CONTINUATION
CP	CONDENSATE PUMP
CW	DOMESTIC COLD WATER, CITY WATER
(D)	DEMOLITION
D	DRAIN
DB	DOWNSPOUT BOOT
DEG	DEGREES
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
(E)	EXISTING
ET	EXPANSION TANK
EFF	EFFICIENCY
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXT	EXTERNAL
(F)	FUTURE
FA	FROM ABOVE
FB	FROM BELOW
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FT	FEET
FU	FIXTURE UNIT
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIBB
HP	HORSEPOWER
HRW	HEAT RECOVERY WATER
HS	HOSE STATION
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HW	DOMESTIC HOT WATER
I.E.	INVERT ELEVATION
IN	INCHES
LAV	LAVATORY
MANUF	MANUFACTURER
MAX	MAXIMUM
MECH	MECHANICAL CONTRACTOR
MIN	MINIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MS	MOP SINK
(N)	NEW
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NUMBER/NORMALLY OPEN
OD	OVERFLOW DRAIN
ON	OVERFLOW NOZZLE
PG	PROPANE GAS
PMP	PUMP
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH, GAUGE
PV	PROCESS VENT
PW	PROCESS WASTE
QUAN	QUANTITY
R	RADIUS
RD	ROOF DRAIN
(R)	RELOCATE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
S	SINK
SZ	SIZE
TEMP	TEMPERATURE
TPV	TRAP PRIMER VALVE
TYP	TYPICAL
V	VENT
V/P/H	VOLTS, PHASE, HERTZ
W	SANITARY WASTE
WC	WATER CLOSET, WATER COLUMN
WCO	WALL CLEAN OUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTER
WPD	WATER PRESSURE DROP
YCO	YARD CLEAN OUT

VALVES

	BALL VALVE
	BUTTERFLY VALVE
	CIRCUIT SETTER
	GAS COCK
	FLOAT VALVE
	TRIPLE DUTY VALVE
	TEMPERATURE CONTROL VALVE
	PRESSURE REGULATING VALVE
	RELIEF VALVE

MISCELLANEOUS CONTROLS

	TEMPERATURE TRANSMITTER
	SOLENOID ACTUATOR

MISC PIPING SYMBOLS

	PIPE UP
	PIPE DOWN
	PIPE DROP
	BRANCH OFF BOTTOM
	BRANCH OFF TOP
	PIPE RISE OR DROP
	PETIE'S PLUG
	PIPE REDUCER
	PRESSURE GAUGE
	PUMP
	STRAINER
	THERMOMETER
	PIPING BELOW FLOOR
	AUTOMATIC AIR VENT
	VACUUM BREAKER
	MOTOR
	FLOOR DRAIN
	FLOOR SINK (HALF GRATE SHOWN)
	FLOOR CLEANOUT
	YARD CLEANOUT
	WALL CLEANOUT
	HOSE BIBB
	DRAIN VALVE
	WATER HAMMER ARRESTOR (WHA)
	POINT OF CONNECTION
	FIXTURE POINT OF CONNECTION

PIPING LEGEND

	CW	DOMESTIC COLD WATER
	CW	DOMESTIC COLD WATER BELOW GRADE
	TP	TRAP PRIMER
	HW	DOMESTIC HOT WATER
	W	WASTE
	W	WASTE BELOW GRADE
	V	VENT
	NG	NATURAL GAS, 14 IN WG, 0.60 SG
	SD	STORM DRAIN
	SD	STORM DRAIN BELOW GRADE
	FW	FIRE WATER MAIN

PIPING INSULATION SCHEDULE

SERVICE	LOCATION	INSULATION CONDUCTIVITY (Btu/in)/(hr-ft-F)	MINIMUM INSULATION THICKNESS (IN) FOR NOMINAL PIPE DIAMETERS LISTED (IN)				
			RUNOUTS UP TO 2	1 AND LESS	1-1/4 TO 2	2-1/2 TO 4	5 AND 6
DOMESTIC COLD WATER (CW)	INDOORS	0.24 - 0.28	0.5	0.5	1.0	1.0	1.0
DOMESTIC HOT WATER (HW)	INDOORS	0.24 - 0.28	0.5	1.0	1.0	1.5	1.5

- NOTES:
- RUNOUTS REFERENCED ABOVE NOT TO EXCEED 12 FEET IN LENGTH.
 - PIPE INSULATION TO INCLUDE ALL-PURPOSE FACTORY BONDED VAPOR BARRIER JACKET. PROVIDE INSULATION AND INSULATION COVERS (ZESTON 2000 OR EQUAL) FOR FITTINGS.

GENERAL NOTES

- THESE DRAWINGS ARE DIAGRAMMATIC; THEY DO NOT SHOW EVERY OFFSET, BEND, TEE, OR ELBOW WHICH MAY BE REQUIRED TO INSTALL WORK IN THE SPACE PROVIDED AND AVOID CONFLICTS. THE CONTRACTOR SHALL FOLLOW THE DRAWINGS AS CLOSELY AS IS PRACTICAL TO DO SO AND INSTALL ADDITIONAL BENDS, OFFSETS, TEES, AND ELBOWS WHERE REQUIRED BY LOCAL CONDITIONS FROM MEASUREMENTS TAKEN AT THE SITE, SUBJECT TO APPROVAL, AND WITHOUT ADDITIONAL COST TO THE OWNER.
- PLUMBING SYSTEMS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES:
 - 2006 IBC WITH OREGON AMENDMENTS
 - 2006 IMC WITH OREGON AMENDMENTS
 - 2003 UPC WITH OREGON AMENDMENTS
- PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH MASON INDUSTRIES "SEISMIC RESTRAINT GUIDELINES" (OR SIMILARLY RECOGNIZED GUIDE) FOR PIPING AS FOLLOWS:
 - DUCTILE PIPING 2-1/2" AND LARGER.
 - ALL NON-DUCTILE PIPING (THREADED IRON, PLASTIC, ETC.).
 - DUCTILE PIPING 1" AND LARGER CONVEYING FUEL GAS.
 - PIPE RACKS WHERE THE CUMULATIVE WEIGHT OF THE PIPING EXCEEDS 10 LBS PER LINEAL FOOT.
- SEISMICALLY RESTRAIN EQUIPMENT IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS FOR SEISMIC IMPORTANCE FACTOR 1.0.
- INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- SANITARY WASTE SLOPE:
 - PIPE SIZES 3" AND LARGER - SLOPE LINES AT 1/8" PER FOOT
 - PIPE SIZES 2-1/2" AND SMALLER - SLOPE LINES AT 1/4" PER FOOT
 - * UNLESS OTHERWISE NOTED.
- SLOPE STORM DRAIN LINES AT 1/8" PER FOOT UNLESS OTHERWISE NOTED.
- THE PLUMBING CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES AND NORMAL FUNCTIONS OF EXISTING FACILITIES AND SERVICES.
- VERIFY EXACT ROUGH-IN AND FINAL EQUIPMENT REQUIREMENTS IN FIELD.
- PROVIDE FIRE SEALANT AT PENETRATIONS OF FIRE RATED ASSEMBLIES; COORDINATE REQUIREMENTS (E.G., F&T RATING, ASSEMBLY DETAILS) WITH ARCHITECT AND GENERAL CONTRACTOR.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS, AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- PROVIDE DI-ELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
- PROVIDE PIPE MARKERS IN ACCORDANCE WITH ASME 13.1 SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS; BRADY, SETON, OR EQUAL.
- NOT ALL CLEANOUTS ARE SHOWN; CONTRACTOR IS RESPONSIBLE FOR PROVIDING CLEANOUTS IN ACCORDANCE WITH THE OSPC; COORDINATE LOCATIONS OF CLEANOUTS WITH GC/OWNER REPRESENTATIVE.
- PROVIDE FDA APPROVED PVC JACKETING FOR INSULATED PIPING SYSTEMS IN WASHDOWN AREAS; COORDINATE REQUIREMENTS WITH OWNER REPRESENTATIVE.
- PROVIDE "SANITARY" PIPE SUPPORT CONFIGURATIONS IN ACCORDANCE WITH HEALTH CODE REQUIREMENTS FOR FOOD HANDLING AND WASHDOWN AREAS; COORDINATE REQUIREMENTS WITH OWNER REPRESENTATIVE.



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PLUMBING

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PLUMBING FIXTURE SCHEDULE 1										
FIXTURE	TYPE	CW SUPPLY		HW SUPPLY		WASTE		VENT BRANCH	MAX FLOW	DESIGN BASIS
		CONN.	BRANCH	CONN.	BRANCH	CONN.	BRANCH			
WC-1	WATER CLOSET FLOOR-MOUNTED	1"	1-1/2"	--	--	4"	3"	2"	1.6 GPF	AMERICAN STANDARD MADERA TOILET 3043.102, FLOOR-MOUNTED, ADA COMPLIANT HEIGHT, ELONGATED BOWL, WHITE; SLOAN 111 ES-S INFRA-RED FLUSH VALVE WITH DUAL FILTERED BYPASS; BEMIS 1955C WHITE SEAT.
WC-2	WATER CLOSET FLOOR-MOUNTED	1"	1-1/2"	--	--	4"	3"	2"	1.6 GPF	AMERICAN STANDARD MADERA TOILET 3043.102, FLOOR-MOUNTED, ELONGATED BOWL, WHITE; SLOAN 111 ES-S INFRA-RED FLUSH VALVE WITH DUAL FILTERED BYPASS; BEMIS 1955C WHITE SEAT.
UR-1	URINAL ACCESSIBLE	3/4"	1"	--	--	3"	3"	2"	1.0 GPF	AMERICAN STANDARD MAYBROOK URINAL 6581.015; WALL MOUNTED, ADA COMPLIANT HEIGHT, WHITE; FLOOR-MOUNTED CARRIER; SLOAN 180-1.0 FLUSH VALVE.
L-1	COUNTERTOP LAVATORY ACCESSIBLE	3/8"	1/2"	3/8"	1/2"	1-1/4"	1-1/2"	1-1/2"	2.2 GPM	AMERICAN STANDARD 0427.444 FRONT OVERFLOW WITH FAUCET HOLES 4" O.C., CHICAGO FAUCET 2200-4E2805CP FAUCET WITH TEMPERATURE LIMIT STOP (110 DEG F), GRID DRAIN, INSULATED TRAP, INSULATED SUPPLIES, SUPPLY STOPS.
L-2	WALL-MOUNTED LAVATORY ACCESSIBLE	3/8"	1/2"	3/8"	1/2"	1-1/4"	1-1/2"	1-1/2"	2.2 GPM	AMERICAN STANDARD 0355.012, WALL HUNG CONCEALED ARMS, FAUCET HOLES 4" O.C., CHICAGO FAUCET 2200-4E2805CP FAUCET WITH TEMPERATURE LIMIT STOP (110 DEG F), GRID DRAIN, INSULATED TRAP, INSULATED SUPPLIES, SUPPLY STOPS.
S-1	STAINLESS STEEL SINK, SINGLE BOWL ACCESSIBLE	1/2"	3/4"	1/2"	3/4"	1-1/2"	2"	1-1/2"	2.5 GPM	ELKAY LRAD-2522 STAINLESS STEEL SINK, SINGLE BOWL; 6" BOWL DEPTH WITH CHICAGO FAUCET 2300-8CP FAUCET, WITH INSULATED TRAP, SUPPLIES, SUPPLY STOPS AND BASKET STRAINER.
MS-1	MOP SINK	1/2"	3/4"	1/2"	3/4"	3"	3"	1-1/2"	--	63M 24X24X10 MUSTEE MOP SINK WITH THE FOLLOWING ACCESSORIES: HOSE HOLDER, MOP HANGER, BUMPER GUARDS, WALL GUARDS; CHICAGO FAUCET 540-LD897SWXFCP WALL-MOUNTED SERVICE SINK FAUCET WITH LEVER HANDLES, VACUUM BREAKER SPOUT, PAIL HOOK, AND WALL BRACE.
DF-1	DRINKING FOUNTAIN ACCESSIBLE, HI-LO	3/8"	1/2"	--	--	1-1/4"	1-1/2"	1-1/2"	--	HAWS 1011MS, STAINLESS STEEL , WALL-MOUNTED, MOUNTING SYSTEM; STAINLESS STEEL BACK PANEL, ACCESS PANEL.
DF-2	DRINKING FOUNTAIN ACCESSIBLE, HI-LO	3/8"	1/2"	--	--	1-1/4"	1-1/2"	1-1/2"	--	HAWS 1119, STAINLESS STEEL , WALL-MOUNTED, MOUNTING SYSTEM; STAINLESS STEEL BACK PANEL, ACCESS PANEL, CANE TOUCH SKIRT.
TPV-1	TRAP PRIMER VALVE	1/2"	1/2"	--	--	--	--	--	--	PRECISION PLUMBING PRODUCTS, INC. OREGON #1 TRAP PRIMER VALVE
AW-1	WASHING MACHINE BOX	1/2"	1/2"	1/2"	1/2"	2"	2"	1-1/2"	--	SYMMONS LAUNDRY-MATE W-602

PROVIDE MODEL NUMBERS INDICATED, OR EQUIVALENT.

PLUMBING FIXTURE SCHEDULE 2			
FIXTURE	TYPE	DESIGN BASIS	DESCRIPTION
FD1	FLOOR DRAIN	J.R. SMITH DX2005A	FLOOR DRAIN WITH DUCO CAST IRON BODY WITH 4" WIDE FLANGE AND SECONDARY FLASHING FLANGE, COLLAR, AND ADJUSTABLE ROUND BRONZE STRAINER HEAD, SEDIMENT BUCKET, NO-HUB OUTLET, NICKEL-BRONZE STRAINER, VANDAL-PROOF SCREWS.
FD2	FLOOR DRAIN	J.R. SMITH 2220	FLOOR DRAIN WITH DUCO CAST IRON BODY WITH FLASHING, COLLAR, ROUND BRONZE STRAINER HEAD, SEDIMENT BUCKET, NICKEL BRONZE TOP, TRAP PRIMER CONNECTION, NO-HUB OUTLET AND VANDAL PROOF GRATE. TAP AND THREAD BUCKET AND GRATE TO ATTACH TO DRAIN BODY.
FS1	FLOOR SINK	J.R. SMITH DX3001	SANI-CEPTOR, 12" SQUARE TOP WITH WIDE FLANGE, SS TOP RECEPTOR, SS 1/2 GRATE, BOTTOM DOME STRAINER.
RD1	ROOF DRAIN	J.R. SMITH 1010Y	ROOF DRAIN WITH DUCO CAST IRON BODY, FLASHING CLAMP, EXPANSION JOINT, NO-HUB OUTLET, SUMP RECEIVER, UNDERDECK CLAMP
WHA-1	WATER HAMMER ARRESTER	PRECISION PLUMBING PRODUCTS SC-500	1" (PDI SIZE C) WATER HAMMER ARRESTER.
FCO	FLOOR CLEANOUT	J.R. SMITH 4020	ADJUSTABLE FLOOR CLEANOUT, DURA COATED CAST IRON BODY, WITH ROUND SCORIATED SECURED NICKEL BRONZE TOP, ADJUSTABLE TO FINISHED FLOOR.
GCO	GRADE CLEANOUT	J.R. SMITH 4111	ADJUSTABLE FLOOR CLEANOUT, DURA COATED CAST IRON BODY, WITH EXTRA HEAVY DUTY ROUND SCORIATED SECURED NICKEL BRONZE TOP, ADJUSTABLE TO FINISHED GRADE.
GT-1	GREASE TRAP	J.R. SMITH 8035	INTERCEPTOR WITH MFR FLOW RESTRICTOR FITTING, ACID RESISTANT COATING INSIDE AND OUTSIDE, ALUMINUM COVER.

PROVIDE MODEL NUMBERS INDICATED, OR EQUIVALENT.

KITCHEN AND BAR EQUIPMENT CONNECTION SCHEDULE									
OWNER-FURNISHED, CONTRACTOR-INSTALLED									
TAG NO.	QTY	KITCHEN CONSULTANT DESCRIPTION	CONNECTION SIZE					COMMENTS	NOTES
			GAS	CW	HW	THW	W		
4	1	MOP SINK	--	1/2	1/2	--	3	MUSTEE 63M, MUSTEE 63.600 FAUCET	
13	1	STAINLESS STEEL SINK, 8" DEEP W/ SPRAYER	--	1/2	1/2	--	1.5	ELKAY LR2521, FAUCET W/ SPRAYER	2" DRAIN
16	1	48" STOVE, GAS COOK TOP, ELECTRIC CONVECTION OVEN BELOW.	3/4	--	--	--	--	US RANGE, GARLAND	128 MBH INPUT
23	1	MULTI-COMPARTMENT STAINLESS STEEL SINK WITH SPRAYER	--	1/2 QTY.2	1/2 QTY.2	--	FS	ELKAY	2 FAUCETS
24	1	COMMERCIAL DISHWASHER AND BOOSTER HEATER	--	---	3/4	--	FS	JACKSON TEMPSTAR	BUILT-IN PRV
28	1	STAINLESS STEEL HAND WASH SINK	--	1/2	1/2	--	1.5	ELKAY LRAD 1219	ADA, 2" DRAIN
30	1	DROP-IN REFRIGERATED WELLS	--	---	---	--	FS	DUKE ADI-3M	

NOTES:
1. KITCHEN FIXTURES FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR; SEE ARCHITECTURAL KITCHEN DRAWINGS FOR EXACT DIMENSIONS AND CONNECTIONS TO EQUIPMENT; COORDINATE WITH FOOD SERVICE CONTRACTOR AND GENERAL CONTRACTOR.
2. INSTALL FAUCETS, DRAINS, AND OTHER FOOD SERVICE EQUIPMENT CONTRACTOR-FURNISHED ITEMS; PROVIDE SPEEDWAY STOPS AND SUPPLIES.

WATER HEATERS										
TAG NO.	QUANTITY	AREA SERVED	TYPE	DESIGN BASIS		TEMP RISE (DEG F)	OUTLET TEMP (DEG F)	STORAGE CAPACITY (GAL)	ELECTRICAL	
				MANUF	MODEL				ELEMENT (kW)	VOLTAGE
WH-1	1	RESTROOMS	ELECTRIC	AO SMITH	ECRT-80	100	140	80.0	4.5	208-1-60
										1,2

NOTES:
1. WATER HEATER TO COMPLY WITH MOST CURRENT VERSIONS OF: NAECA, ASHRAE STD 90.1, AND STATE ENERGY CODE REQUIREMENTS.
2. ELEMENT WATTAGE LISTED IS FOR STANDARD 240 VOLT SINGLE PHASE VOLTAGE; WATTAGE WILL BE DE-RATED FOR 208 VOLT.

PLUMBING EQUIPMENT REQUIRING ELECTRICAL POWER								
TAG NO.	DESCRIPTION	DESIGN BASIS	CW SUPPLY		ELECTRICAL			NOTES
			CONN.	BRANCH	AMPS	HP	VOLTAGE	
HWD-1	INSTANT HOT WATER HEATER	IN-SINK ERATOR, MODEL HOT-1	1/4"	--	4.3	--	115	1,2

NOTES:
1. VERIFY ELECTRICAL VOLTAGE PRIOR TO PLACING ORDER.
2. ADA ACCESSIBLE

PRESSURE REDUCING VALVES								
TAG NO.	INLET PRESSURE		OUTLET PRESSURE SETTING (PSIG)	MAX. FALL-OFF PRESSURE (PSIG)	FLOW RATE (GPM)	SIZE (IN)	DESIGN BASIS	
	MIN (PSIG)	MAX (PSIG)					MANUF	MODEL
PRV-1	70	140	70	10	58.0	1-1/2"	WATTS	223BS
								1

NOTES:
1. PRV TO INCLUDE STRAINER AND THERMAL EXPANSION BY-PASS LINE.



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PROJECT NAME

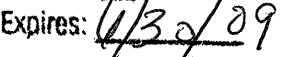
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PL1.0

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GENERAL NOTES

- A. SEE GENERAL PLUMBING NOTES ON DRAWING PLO.
- B. SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH LINE AND CONNECTION SIZES.
- C. SANITARY WASTE SLOPE, UNLESS OTHERWISE NOTED:
PIPE SIZES 3" AND LARGER: 1/8" PER FOOT
PIPE SIZES 2-1/2" AND SMALLER: 1/4" PER FOOT
- D. SLOPE STORM DRAIN LINES AT 1/8" PER FOOT UNLESS OTHERWISE NOTED.
- E. INVERT ELEVATIONS (I.E.) INDICATED ARE REFERENCED TO A FLOOR FINISHING HEIGHT OF 153.50 FEET. FIELD VERIFY.
- F. PLUMBING VENTS SHALL BE A MINIMUM OF 10 FEET AWAY FROM OUTSIDE AIR INTAKES.
- G. NOT ALL CLEANOUTS ARE SHOWN; CONTRACTOR IS RESPONSIBLE FOR PROVIDING CLEANOUTS IN ACCORDANCE WITH THE CODE; COORDINATE LOCATIONS OF CLEANOUTS WITH GC/OWNER REPRESENTATIVE.
- H. PROVIDE TRAP PRIMERS AT ALL FLOOR DRAINS, UNLESS OTHERWISE NOTED.
- I. PROVIDE FIRESTOPPING, SLEEVES, AND SEALANTS AT FLOOR, WALL, AND CEILING PENETRATIONS; COORDINATE LOCATIONS WITH GC.

KEYED NOTES

- ① CONNECT TO (E)3"W STACK IN (E) PLUMBING CHASE.
- ② CORE THRU (E) CONCRETE STEM WALLS. COORDINATE WITH STRUCTURAL.

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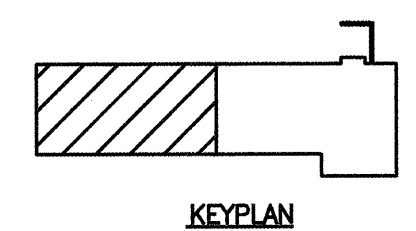
**WASTE & VENT PLAN
LOWER LEVEL - WEST**

PROJECT NAME

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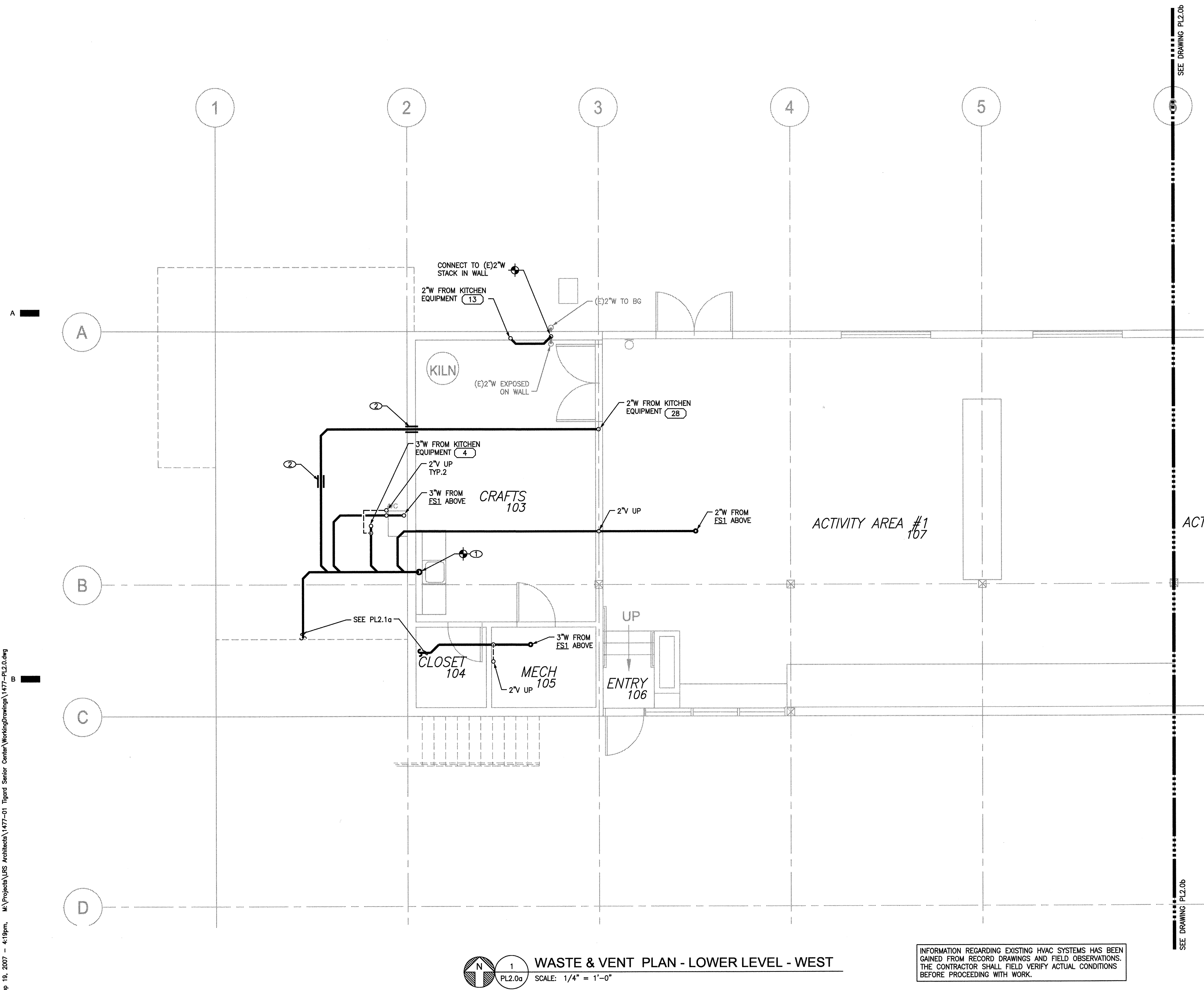
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KEYPLAN

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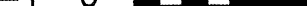
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INFORMATION REGARDING EXISTING HVAC SYSTEMS HAS BEEN GAINED FROM RECORD DRAWINGS AND FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS BEFORE PROCEEDING WITH WORK.

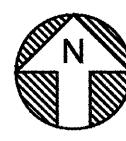
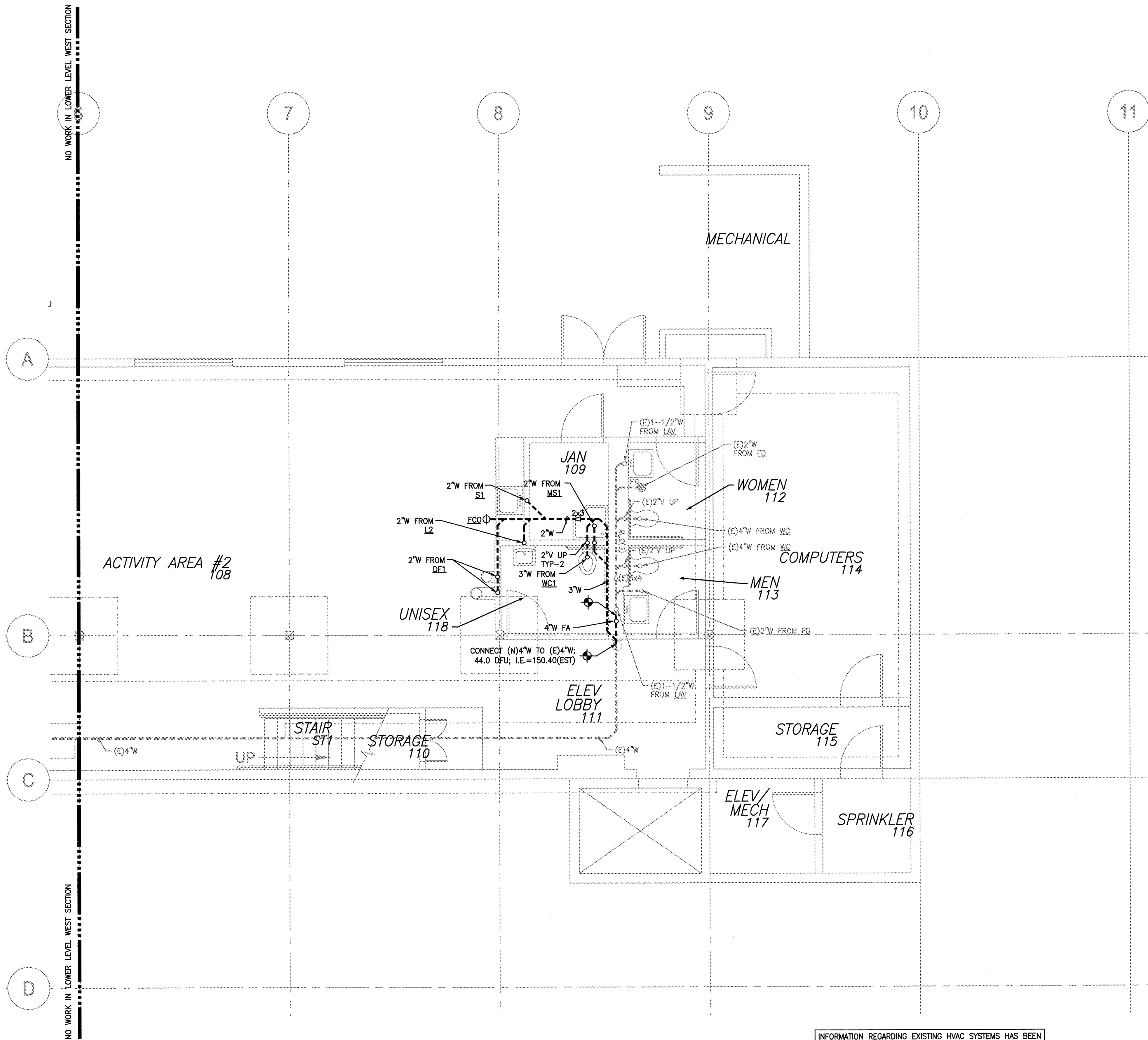
WASTE & VENT PLAN - LOWER LEVEL - WEST

SCALE: $1/4" = 1'-0"$

1/4"=1'-0" 

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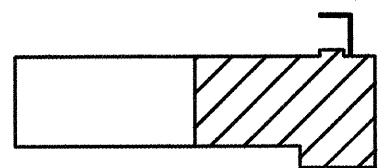
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WASTE & VENT PLAN - UNDERGROUND - EAST

SCALE: 1/4" = 1'-0"

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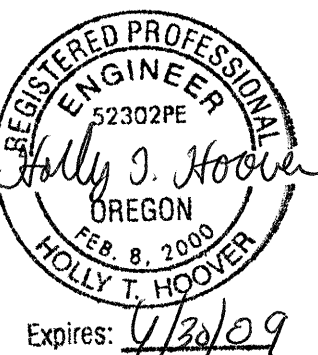


KEYPLAN

1/4"=1'-0" 2' 0 5' 10'

GENERAL NOTES

- SEE GENERAL PLUMBING NOTES ON DRAWING PL0.
- SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH LINE AND CONNECTION SIZES.
- SANITARY WASTE SLOPE, UNLESS OTHERWISE NOTED:
PIPE SIZES 3" AND LARGER: 1/8" PER FOOT
PIPE SIZES 2-1/2" AND SMALLER: 1/4" PER FOOT
- SLOPE STORM DRAIN LINES AT 1/8" PER FOOT UNLESS OTHERWISE NOTED.
- INVERT ELEVATIONS (I.E.) INDICATED ARE REFERENCED TO A FLOOR FINISHED HEIGHT OF 153.50 FEET. FIELD VERIFY.
- PLUMBING VENTS SHALL BE A MINIMUM OF 10 FEET AWAY FROM OUTSIDE AIR INTAKES.
- NOT ALL CLEANOUTS ARE SHOWN; CONTRACTOR IS RESPONSIBLE FOR PROVIDING CLEANOUTS IN ACCORDANCE WITH THE CODE; COORDINATE LOCATIONS OF CLEANOUTS WITH GC/OWNER REPRESENTATIVE.
- PROVIDE TRAP PRIMERS AT ALL FLOOR DRAINS, UNLESS OTHERWISE NOTED.
- PROVIDE FIRESTOPPING, SLEEVES, AND SEALANTS AT FLOOR, WALL, AND CEILING PENETRATIONS; COORDINATE LOCATIONS WITH GC.



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CONSULTANTS

**TIGARD SENIOR CENTER
RENOVATION AND ADDITION
8815 SW O'MARA ST.
TIGARD, OREGON 97223
WASTE & VENT PLAN
UNDERGROUND - EAST**

PROJECT NAME

DATE: 09.20.07

CHECK: LD

DRAWN BY:

PROJECT: 207037

PL2.00b

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GENERAL NOTES

- A. SEE GENERAL PLUMBING NOTES ON DRAWING PLO.
B. SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH LINE AND CONNECTION SIZES.
C. SANITARY WASTE SLOPE, UNLESS OTHERWISE NOTED:
PIPE SIZES 3" AND LARGER: 1/8" PER FOOT
PIPE SIZES 2-1/2" AND SMALLER: 1/4" PER FOOT
D. SLOPE STORM DRAIN LINES AT 1/8" PER FOOT UNLESS OTHERWISE NOTED.
E. INVERT ELEVATIONS (I.E.) INDICATED ARE REFERENCED TO A FLOOR FINISHED HEIGHT OF 153.50 FEET. FIELD VERIFY.
F. PLUMBING VENTS SHALL BE A MINIMUM OF 10 FEET AWAY FROM OUTSIDE AIR INTAKES.
G. NOT ALL CLEANOUTS ARE SHOWN; CONTRACTOR IS RESPONSIBLE FOR PROVIDING CLEANOUTS IN ACCORDANCE WITH THE CODE; COORDINATE LOCATIONS OF CLEANOUTS WITH GC/OWNER REPRESENTATIVE.
H. PROVIDE TRAP PRIMERS AT ALL FLOOR DRAINS, UNLESS OTHERWISE NOTED.
I. PROVIDE FIRESTOPPING, SLEEVES, AND SEALANTS AT FLOOR, WALL, AND CEILING PENETRATIONS; COORDINATE LOCATIONS WITH GC.

KEYED NOTES

- ① CONNECT (N)2"V TO (E)2"V STACK SERVING FIXTURE.
② OFFSET IN WALL.
③ PENETRATE THRU JOIST. SEE STRUCTURAL DWGS. TYP. 6
④ REINSTALL (E)WC AFTER FLOORING COMPLETE.

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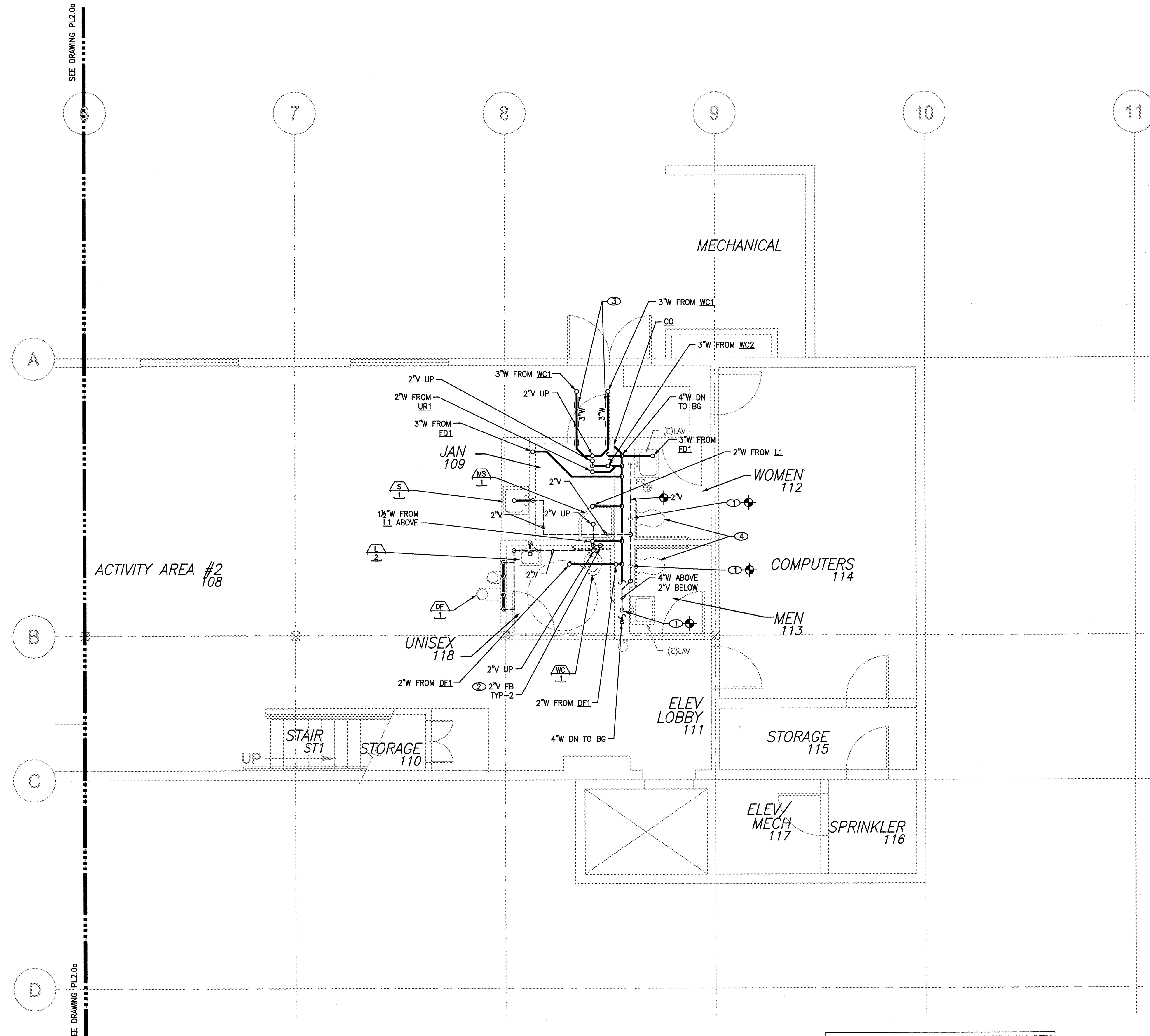
**TIGARD SENIOR CENTER
RENOVATION AND ADDITION**
8815 SW OMAHA ST.
TIGARD, OREGON 97223
**WASTE & VENT PLAN - EAST
LOWER LEVEL - EAST**

PROJECT NAME

DATE: 09.20.07

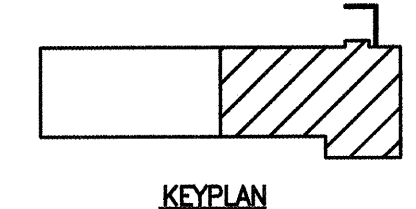
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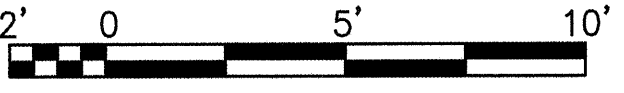
PROJECT: 207037



 **WASTE & VENT PLAN - LOWER LEVEL - EAST**
SCALE: 1/4" = 1'-0"

INFORMATION REGARDING EXISTING HVAC SYSTEMS HAS BEEN GAINED FROM RECORD DRAWINGS AND FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS BEFORE PROCEEDING WITH WORK.



1/4"=1'-0" 

PL2.0b

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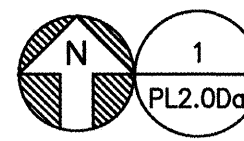
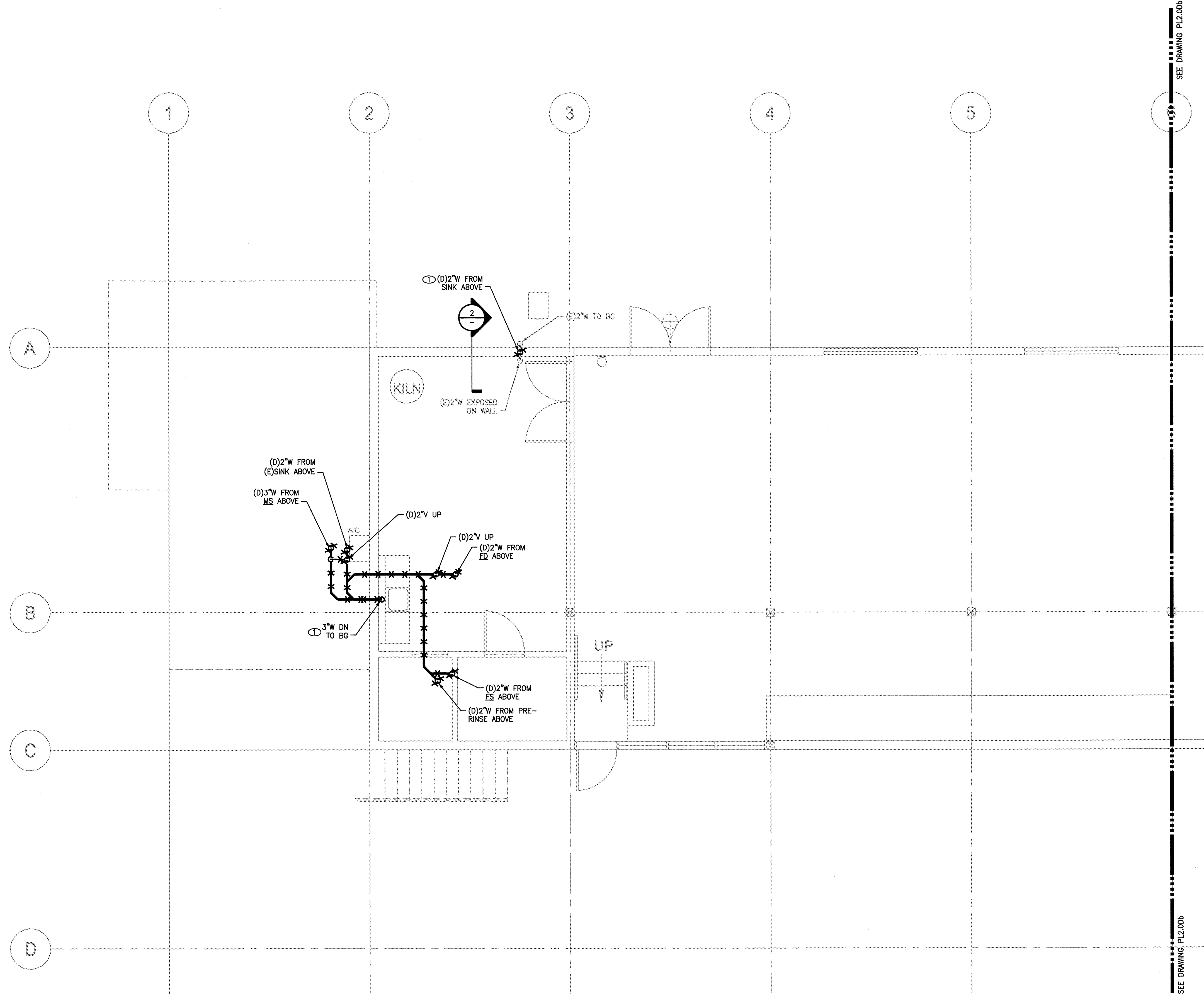
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Michael, Plotted: Sep 19, 2007 - 4:19pm, 1/4" = 1'-0"

A

B

C

D



WASTE & VENT PLAN - DEMOLITION - LOWER LEVEL - WEST

SCALE: 1/4" = 1'-0"

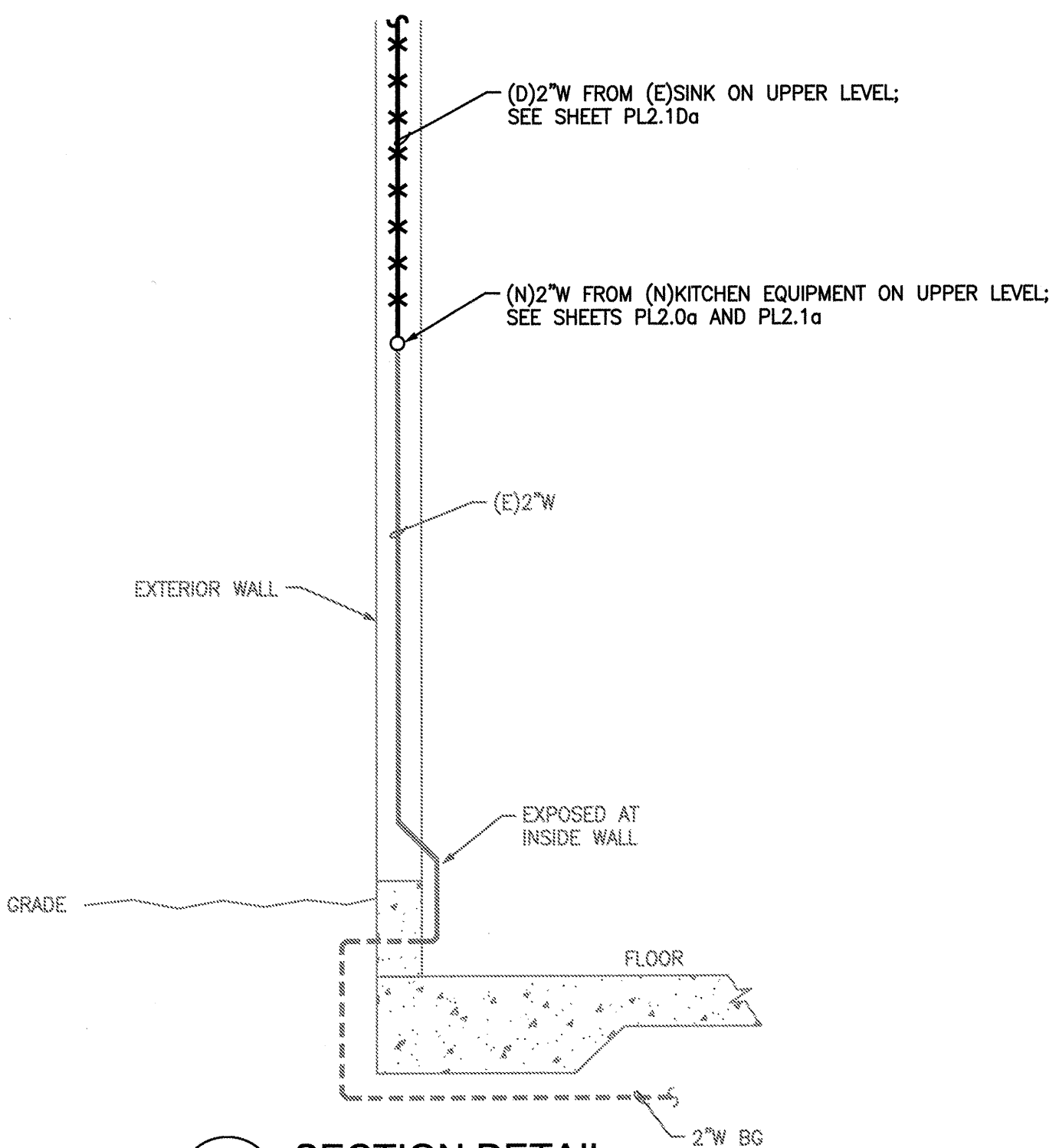
INFORMATION REGARDING EXISTING HVAC SYSTEMS HAS BEEN GAINED FROM RECORD DRAWINGS AND FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS BEFORE PROCEEDING WITH WORK.

GENERAL NOTES

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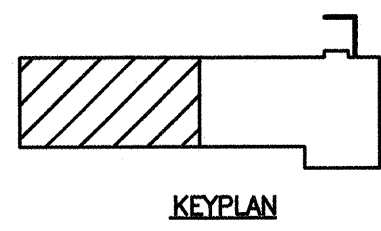
KEYED NOTES

- ① DEMO WASTE FOR (N) CONNECTION IN WALL



SECTION DETAIL

SCALE: NONE



PL2.0Da



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8845 SW OMARA ST.
TIGARD, OREGON 97223
**WASTE & VENT PLAN
DEMOLITION - LOWER LEVEL - WEST**

PROJECT NAME

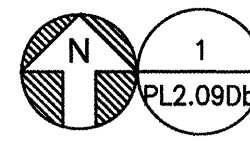
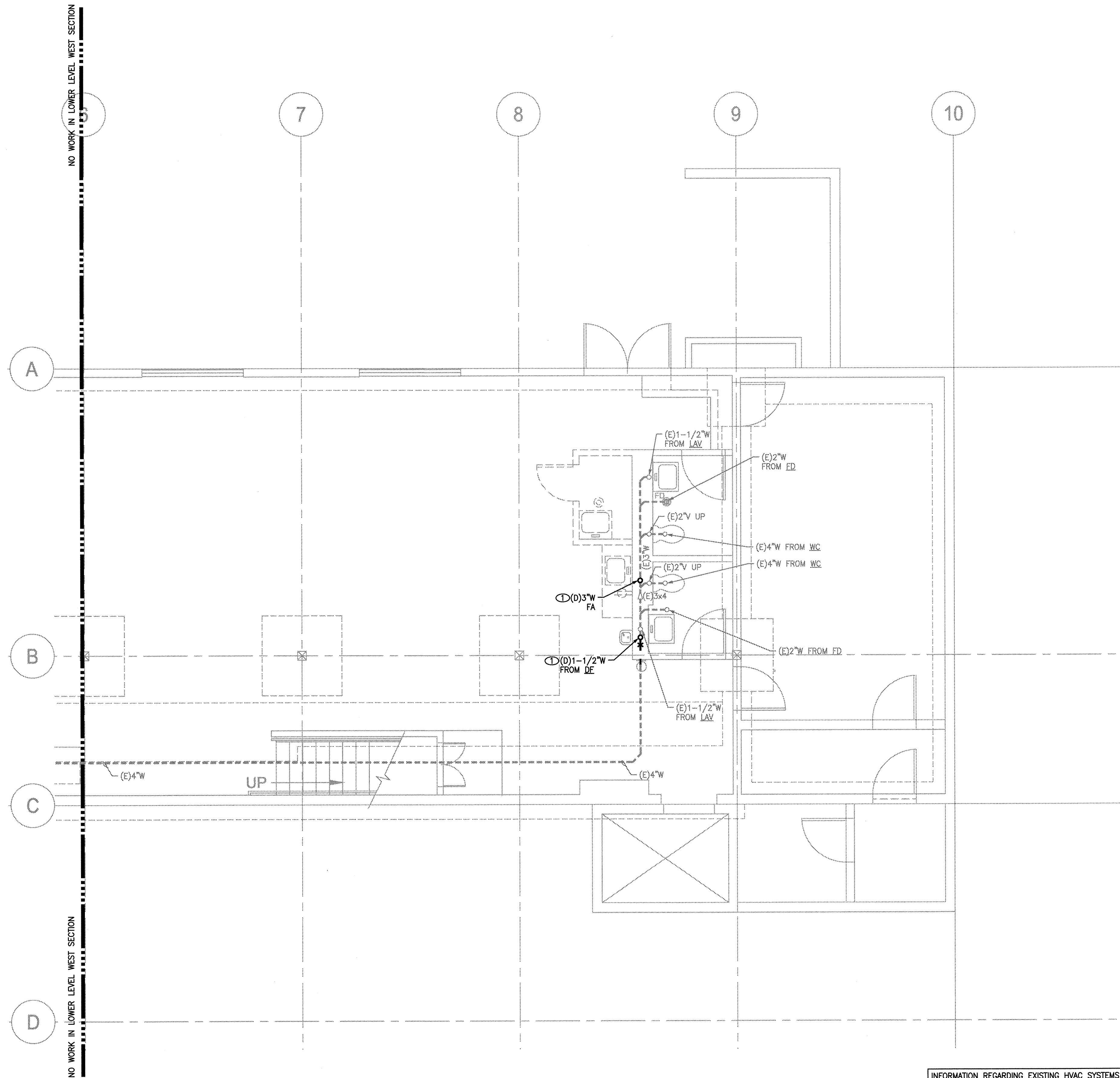
DATE: 09.20.07

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PROJECT: 207037

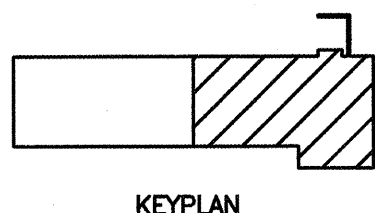
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WASTE & VENT PLAN - DEMOLITION - UNDERGROUND - EAST

SCALE: 1/4" = 1'-0"

INFORMATION REGARDING EXISTING HVAC SYSTEMS HAS BEEN GAINED FROM RECORD DRAWINGS AND FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS BEFORE PROCEEDING WITH WORK.



KEYPLAN

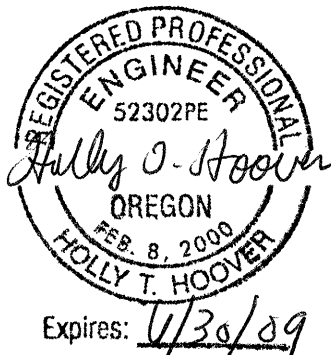
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GENERAL NOTES

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KEYED NOTES

- Ⓢ DEMO AND CAP WASTE BRANCH AT A POINT TO BE CONCEALED BY FINISH WORK.



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TIGARD, OREGON 97223**
**WASTE & VENT PLAN
DEMOLITION - UNDERGROUND - EAST**

PROJECT NAME

DATE: 09.20.07

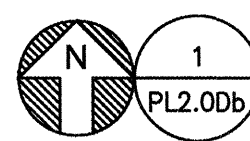
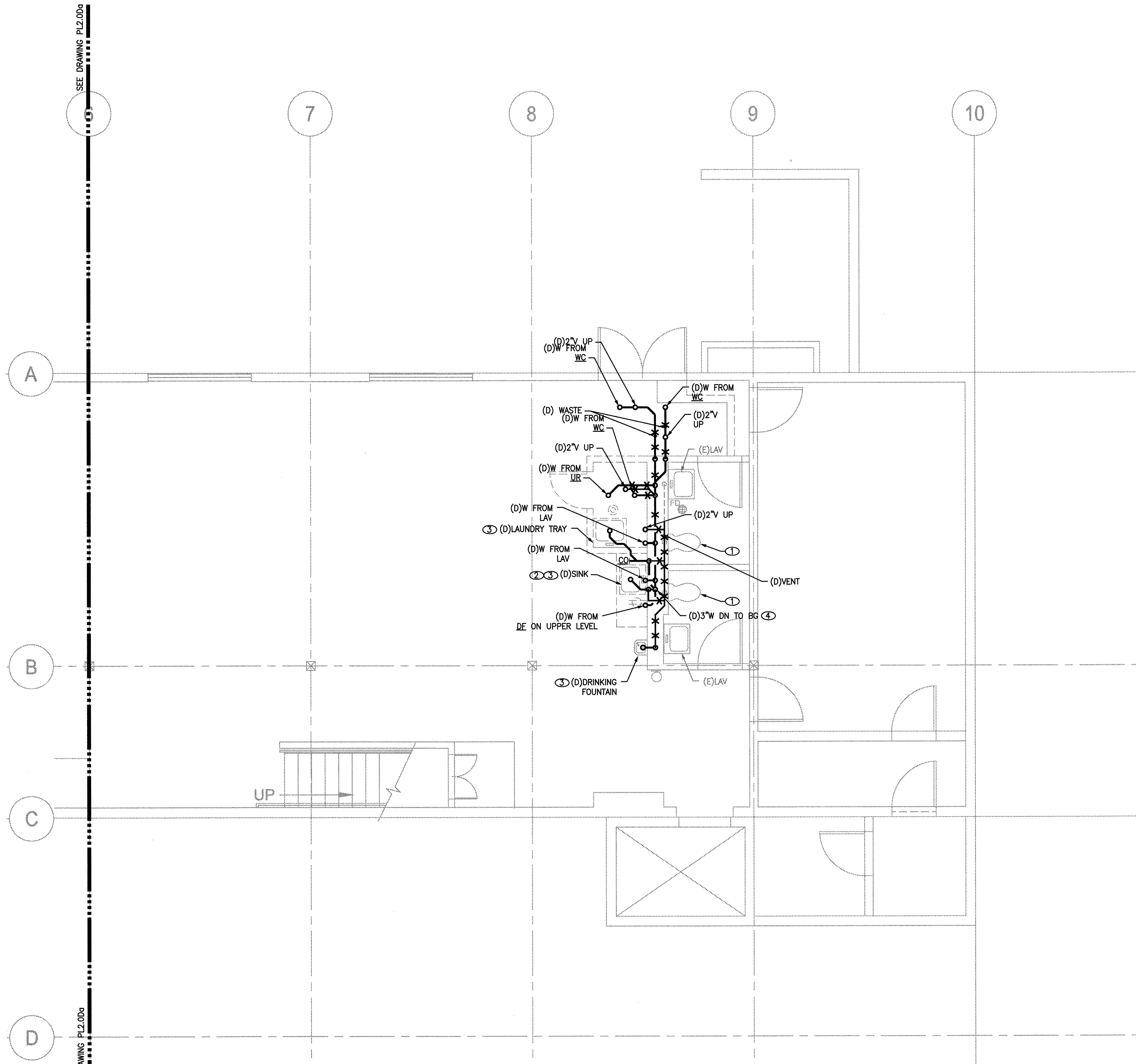
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PROJECT: 207037

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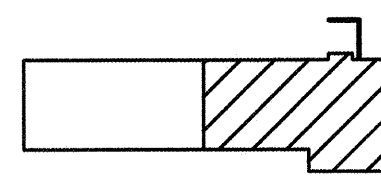
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WASTE & VENT PLAN - DEMOLITION - LOWER LEVEL - EAST

SCALE: 1/4" = 1'-0"

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KEYPLAN

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KEYED NOTES

- REMOVE AND REINSTALL WC TO ACCOMMODATE NEW FLOORING INSTALLATION; COORDINATE WITH GC PRIOR TO COMMENCEMENT OF WORK.
- DEMO (E) INSTA-HOT MODEL HOT-1
- DEMO PLUMBING FIXTURE AND ASSOCIATED WASTE/VENT PIPING BRANCHES. CAP PIPING AT A POINT BEYOND CONCEALMENT.
- DEMO WASTE BRANCH PIPING TO A POINT BEYOND CONCEALMENT AND CAP.



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RENOVATION AND ADDITION**
8815 SW OMARA ST.
TIGARD, OREGON 97223

**WASTE & VENT PLAN
DEMOLITION - LOWER LEVEL - EAST**

PROJECT NAME

DATE: 08.09.07

CHECK: LD

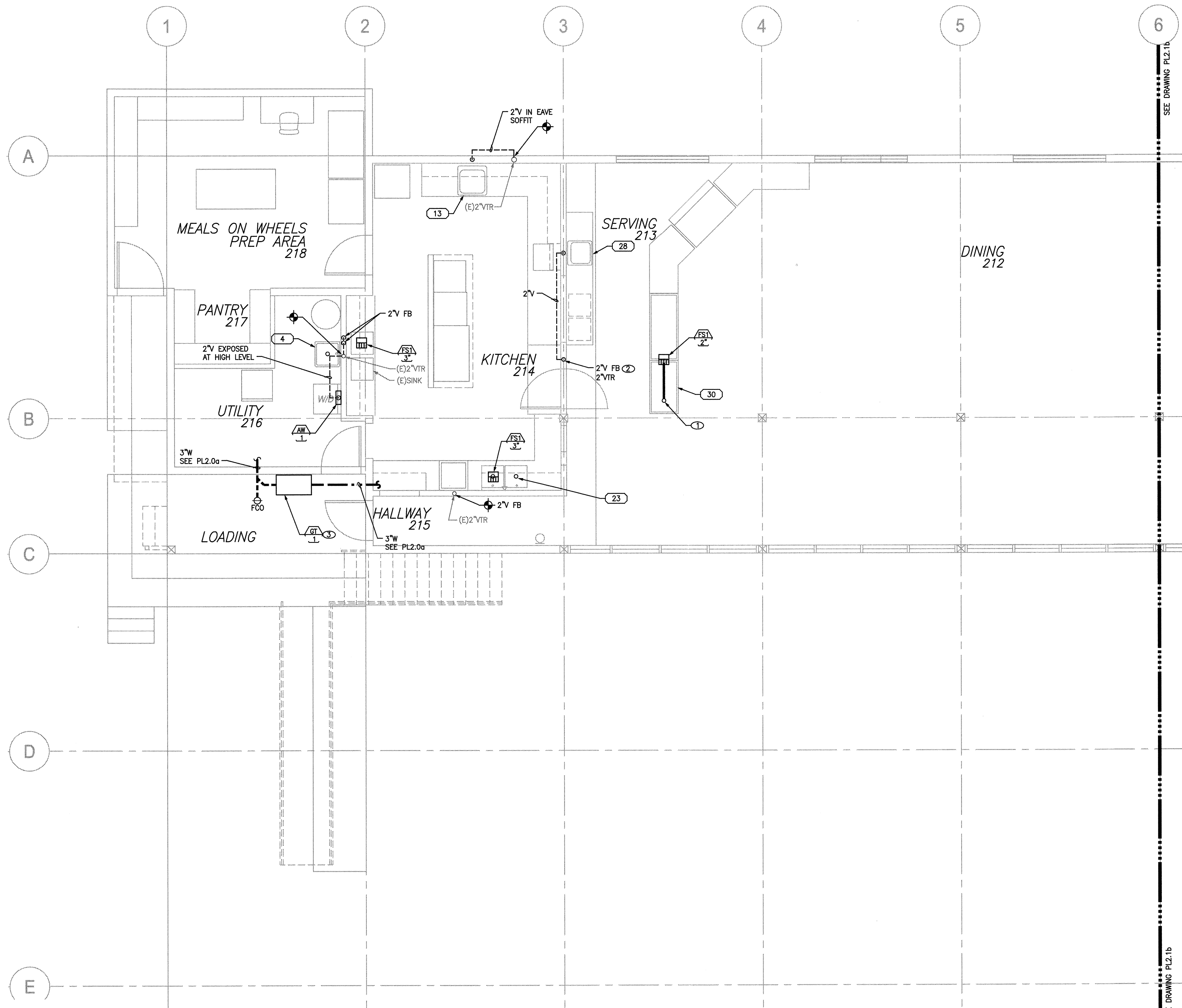
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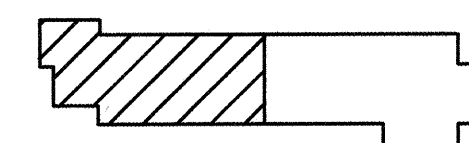
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Michael, Plotted: Sep 19, 2007 - 4:20pm, 1/4" = 1'-0"




 1
WASTE & VENT PLAN - UPPER LEVEL - WEST
SCALE: 1/4" = 1'-0"

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KEYPLAN

1/4"=1'-0" 

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KEYED NOTES

- ID FROM WELL TO OVER FS
- FLASH AND COUNTERFLASH (N) ROOF PENETRATION
- SET COVER FLUSH WITH DECK ELEVATION. ENCASE IN MIN. 4" THICK CONCRETE. TO SET ELEV. COORD. WITH STRUCTURAL



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**TIGARD SENIOR CENTER
RENOVATION AND ADDITION
8815 SW O'WARA ST.
TIGARD, OREGON 97223
WASTE & VENT PLAN
UPPER LEVEL - WEST**

PROJECT NAME

DATE: 09.17.07

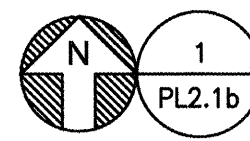
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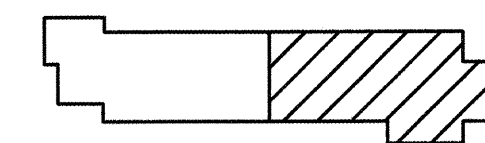
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WASTE & VENT PLAN - UPPER LEVEL - EAST

SCALE: 1/4" = 1'-0"

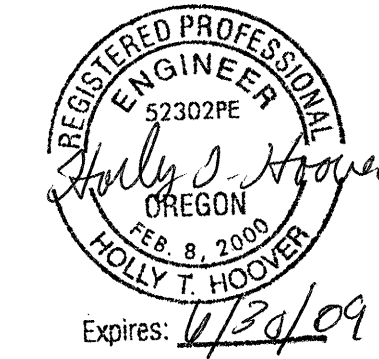


KEY PLAN

1/4"=1'-0" 2' 0 5' 10'

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- KEYED NOTES
- ① FLASH AND COUNTERFLASH NEW PENETRATION OF ROOF.



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RENOVATION AND ADDITION
8815 SW OMAHA ST.
TIGARD, OREGON 97223**
**WASTE & VENT PLAN
UPPER LEVEL - EAST**

PROJECT NAME

DATE: 09.17.07

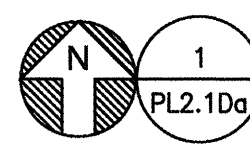
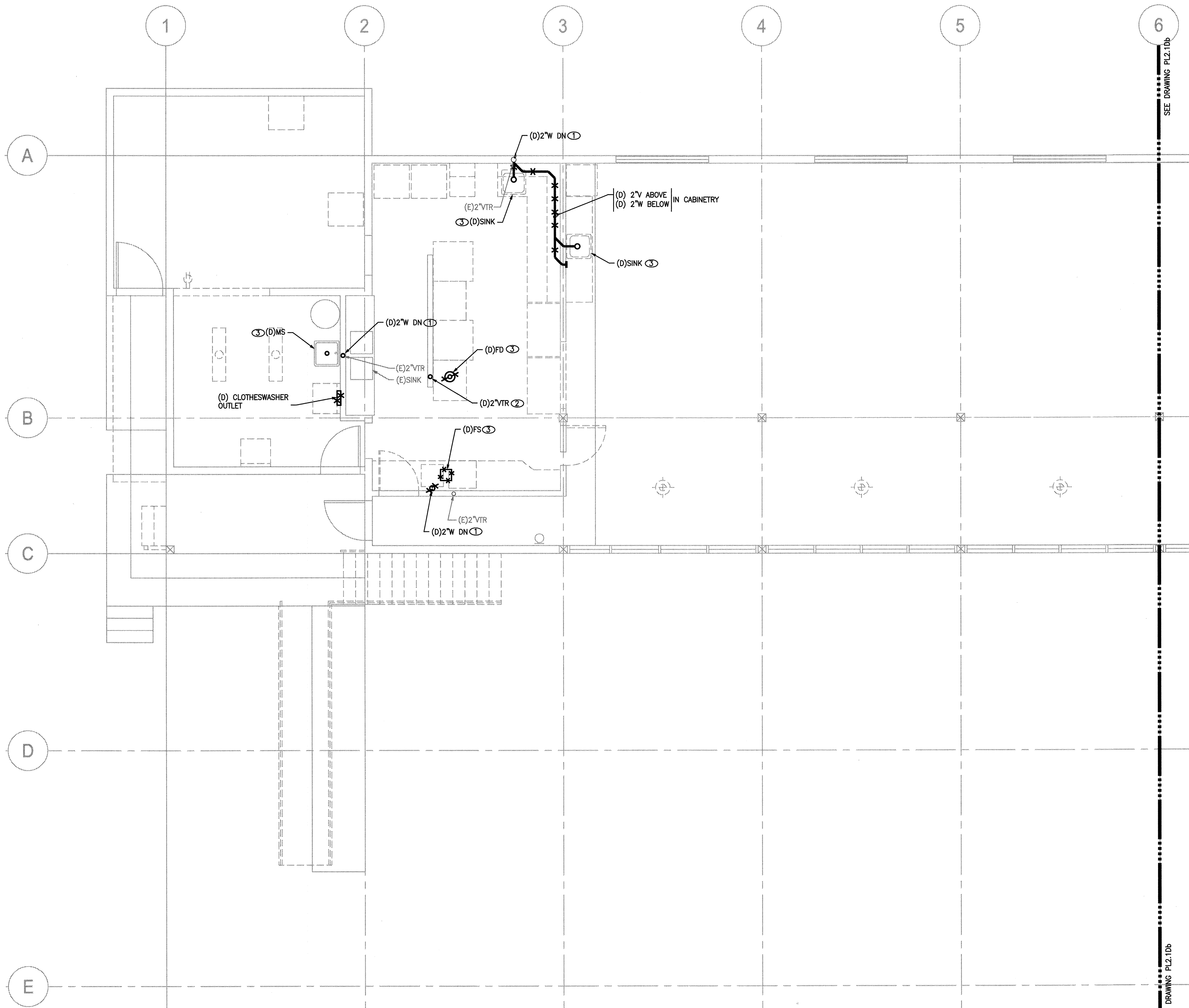
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PROJECT: 207037

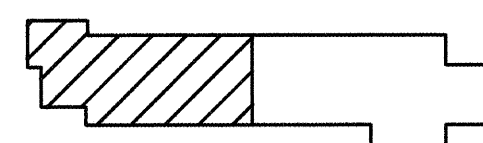
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WASTE & VENT PLAN - DEMOLITION - UPPER LEVEL - WEST
SCALE: 1/4" = 1'-0"

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KEY PLAN

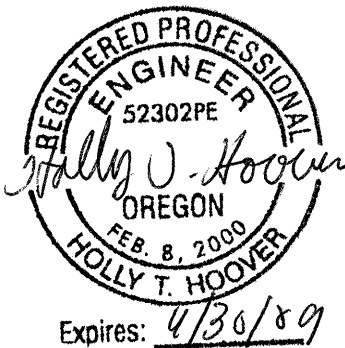
1/4"=1'-0" 2' 0 5' 10'

GENERAL NOTES

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KEYED NOTES

- DEMO WASTE FOR (N) VENT CONNECTION.
- DEMO VTR AND PATCH ROOF WEATERTIGHT.
- DEMO PLUMBING FIXTURE AND ASSOCIATED WASTE/VENT PIPING BRANCHES.



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**WASTE & VENT PLAN
DEMOLITION - UPPER LEVEL - WEST**

PROJECT NAME

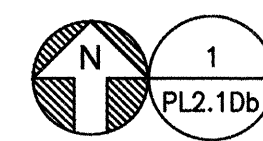
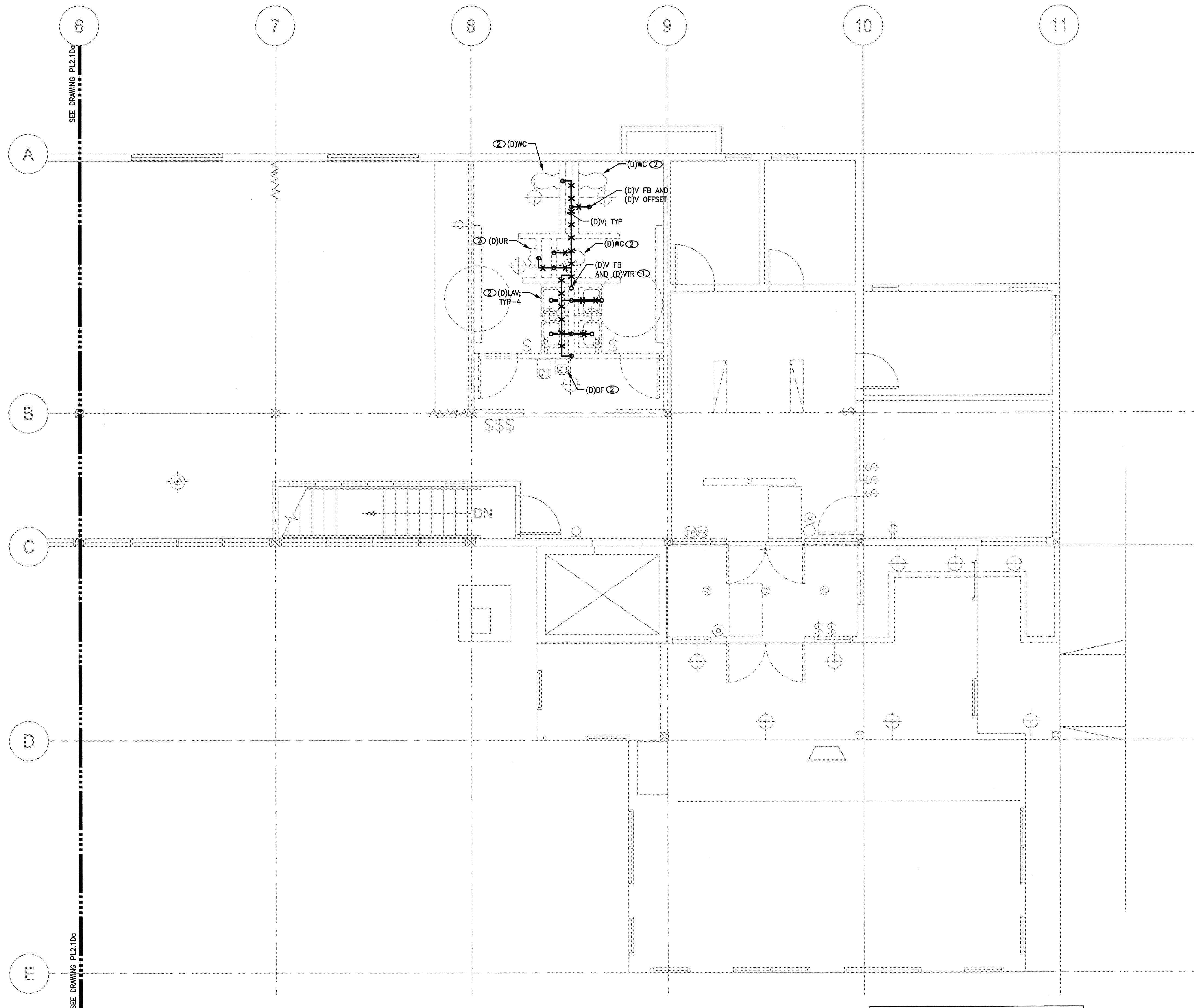
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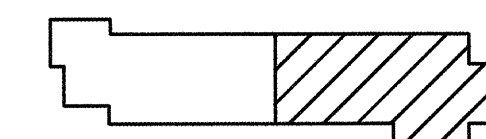
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WASTE & VENT PLAN - DEMOLITION - UPPER LEVEL - EAST

SCALE: 1/4" = 1'-0"

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KEYPLAN

1/4"=1'-0" 2' 0 5' 10'

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 - B. SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH LINE AND CONNECTION SIZES.
 - C. SANITARY WASTE SLOPE, UNLESS OTHERWISE NOTED:
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 - F. PLUMBING VENTS SHALL BE A MINIMUM OF 10 FEET AWAY FROM OUTSIDE AIR INTAKES.
 - G. NOT ALL CLEANOUTS ARE SHOWN; CONTRACTOR IS RESPONSIBLE FOR PROVIDING CLEANOUTS IN ACCORDANCE WITH THE CODE; COORDINATE LOCATIONS OF CLEANOUTS WITH GC/OWNER REPRESENTATIVE.
 - H. PROVIDE TRAP PRIMERS AT ALL FLOOR DRAINS, UNLESS OTHERWISE NOTED.
 - I. PROVIDE FIRESTOPPING, SLEEVES, AND SEALANTS AT FLOOR, WALL, AND CEILING PENETRATIONS; COORDINATE LOCATIONS WITH GC.

- KEYED NOTES**
- ① DEMO VTR AND PATCH ROOF WEATERTIGHT.
 - ② DEMO PLUMBING FIXTURE AND ASSOCIATED WASTE/VENT PIPING BRANCHES.



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TIGARD, OREGON 97223**

**WASTE & VENT PLAN
DEMOLITION - UPPER LEVEL - EAST**

PROJECT NAME

DATE: 09.17.07

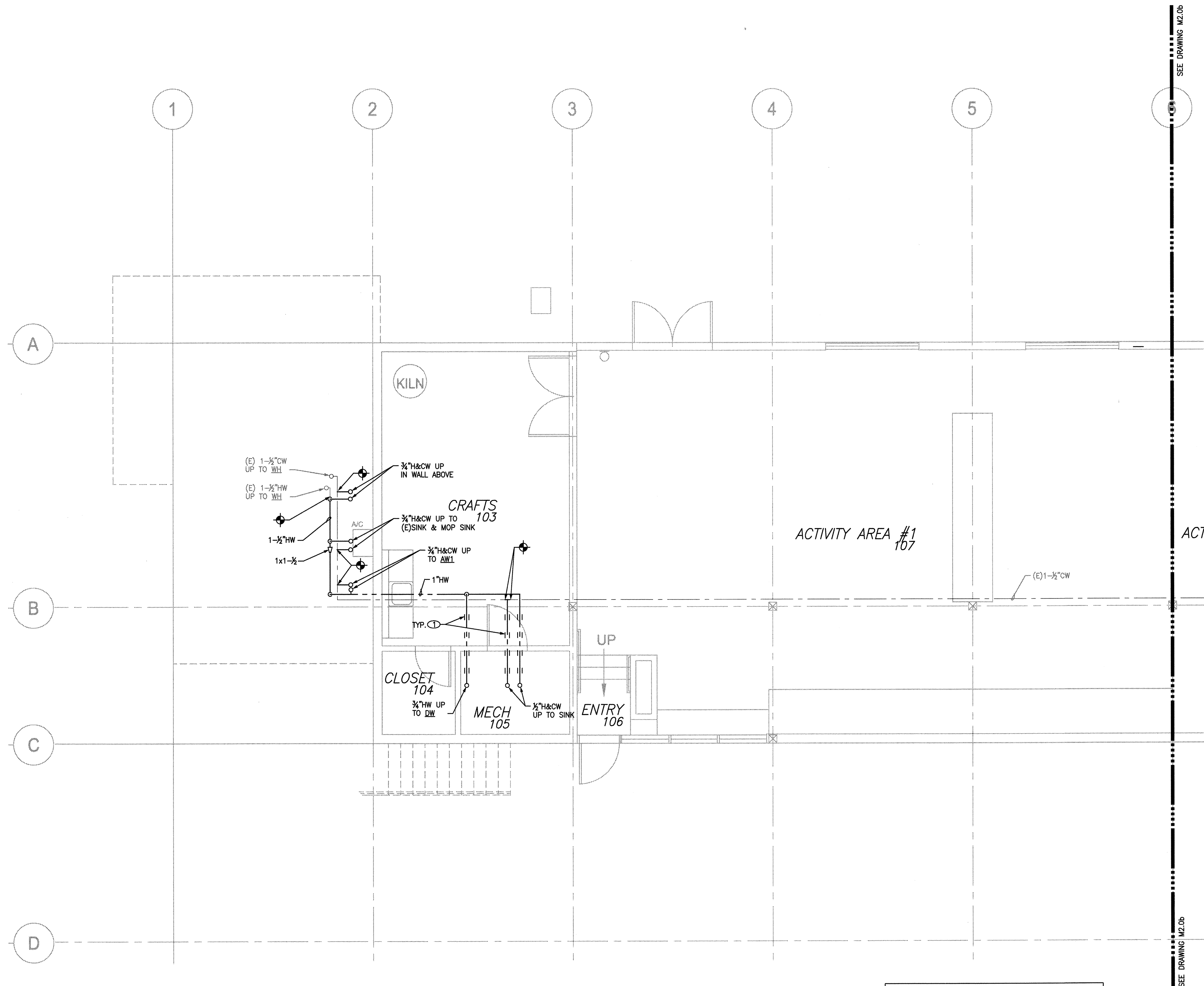
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PROJECT: 207037

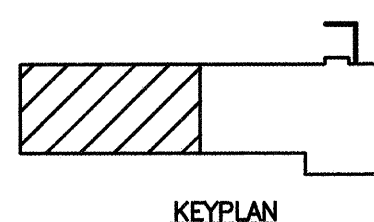
PL2.1Db

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1 WATER & GAS PLAN - LOWER LEVEL - WEST
PL3.0a SCALE: 1/4" = 1'-0"

INFORMATION REGARDING EXISTING HVAC SYSTEMS HAS BEEN GAINED FROM RECORD DRAWINGS AND FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS BEFORE PROCEEDING WITH WORK.



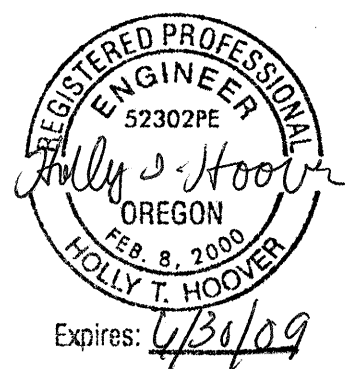
1/4"=1'-0" 2' 0 5' 10'

GENERAL NOTES

- SEE GENERAL PLUMBING NOTES ON DRAWING PL0.
- SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH LINE AND CONNECTION SIZES.
- DOMESTIC WATER SYSTEM IS BASED ON THE FOLLOWING INFORMATION AVAILABLE AT THE TIME OF SYSTEM DESIGN:
MINIMUM AVAILABLE WATER PRESSURE: 70 PSIG
MAXIMUM AVAILABLE WATER PRESSURE: 104 PSIG
- PROVIDE STOPS AND SUPPLIES FOR HW AND CW CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT.
- PROVIDE TRAP PRIMERS AT ALL FLOOR DRAINS, UNLESS OTHERWISE NOTED.
- PROVIDE FIRESTOPPING, SLEEVES, AND SEALANTS AT FLOOR, WALL, AND CEILING PENETRATIONS; COORDINATE LOCATIONS WITH GC.

KEYED NOTES

- PENETRATE THRU (E) FLOOR JOISTS. TYPICAL SEE STRUCTURAL DWGS.



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**TIGARD SENIOR CENTER
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WATER & GAS PLAN
LOWER LEVEL - WEST**

PROJECT NAME

DATE: 09.20.07

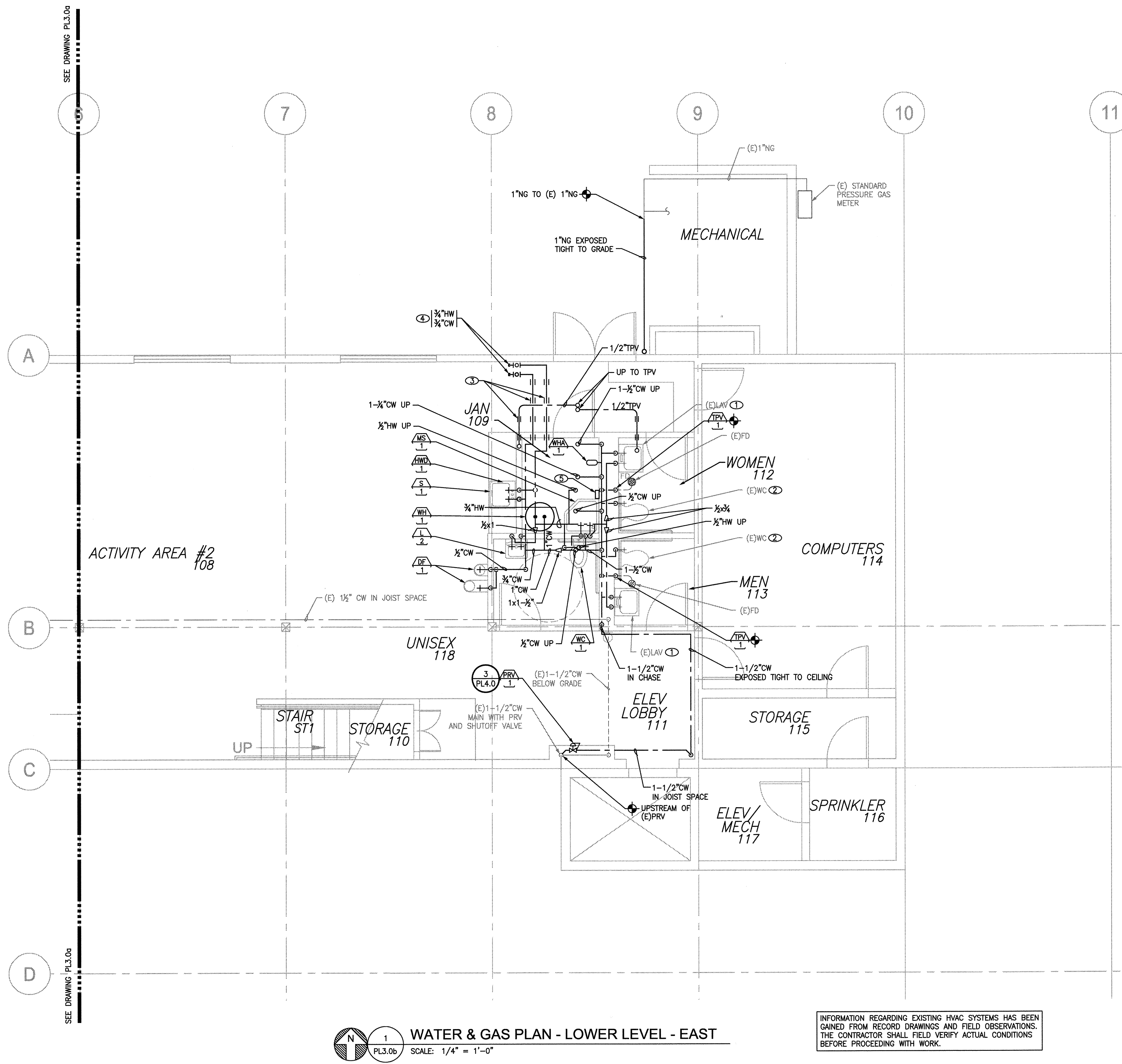
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PROJECT: 207037

PL3.0a

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GENERAL NOTES

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KEYED NOTES

- CONNECT (N) HW/CW STOPS TO (E) HW/CW SUPPLIES.
- CONNECT (N) CW BRANCH TO (E) FLUSH VALVE.
- SLEEVE THRU JOIST. SEE STRUCTURAL DWGS. TYP.
- CAP AND VALVE IN JOIST SPACE FOR FUTURE GARDEN ROOM. 2.0 GPM
- TRANSFORMER FOR INFRARED FLUSH VALVES. COORDINATE LOW-VOLTAGE WIRING TO VALVES WITH ELECTRICAL.



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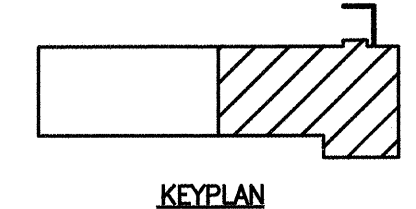
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WATER & GAS PLAN
LOWER LEVEL - EAST**

PROJECT NAME

DATE: 09.20.07

CHECK: LD
DRAWN BY: RMT

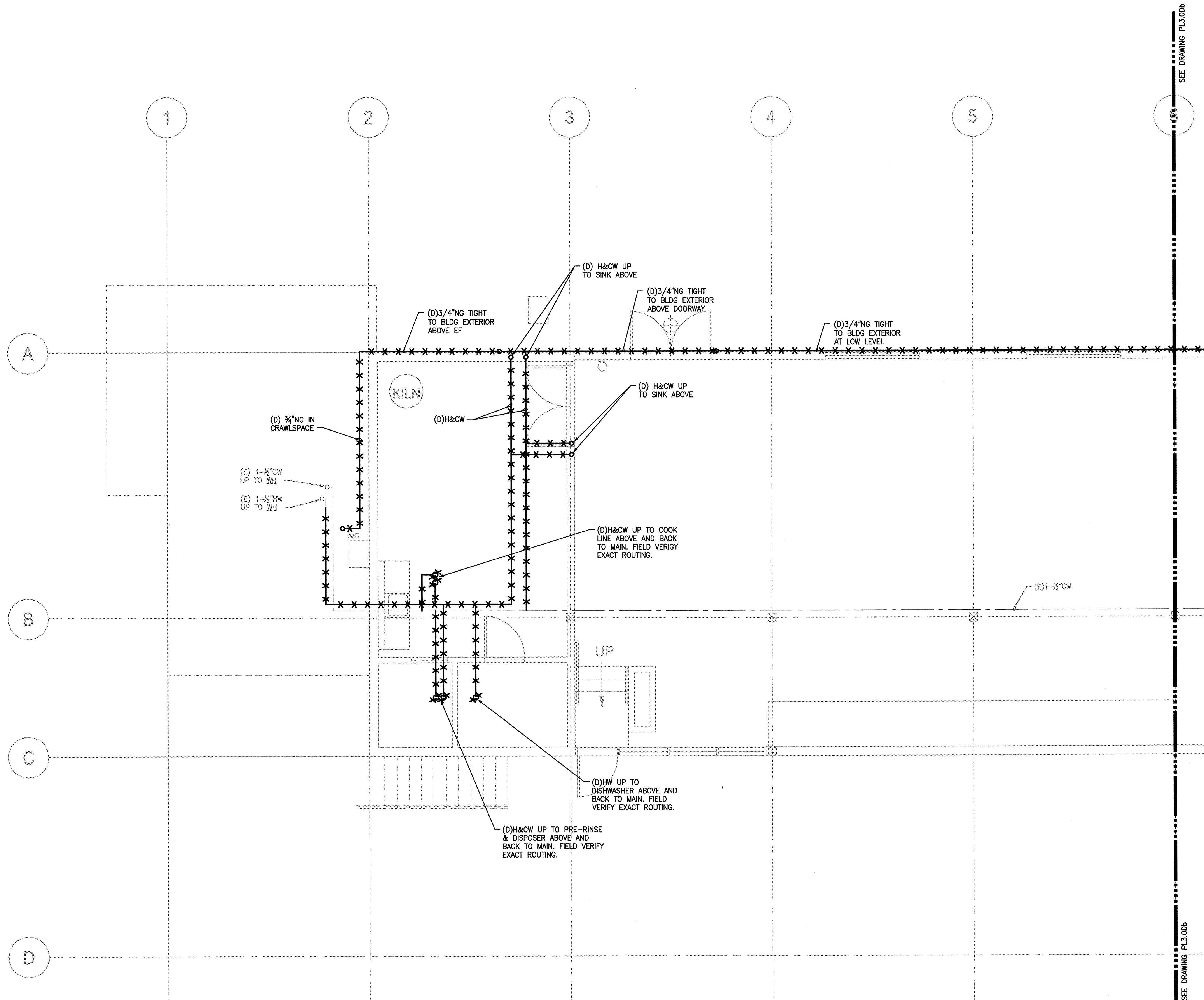
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PL3.0b

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Michael, Plotted: Sep 19, 2007 - 4:20pm, M:\Projects\URS Architects\1477-01 Tigard Senior Center\WorkingDrawings\1477-PL3.0.dwg



GENERAL NOTES

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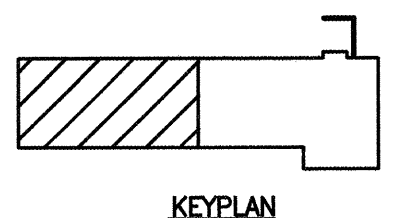
**TIGARD SENIOR CENTER
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TIGARD, OREGON 97223**
**WATER & GAS PLAN
DEMOLITION - LOWER LEVEL - WEST**

PROJECT NAME

DATE: 09.20.07

CHECK: LD
DRAWN BY: RMT

PROJECT: 207037

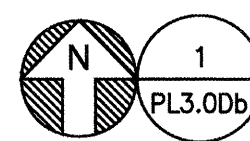
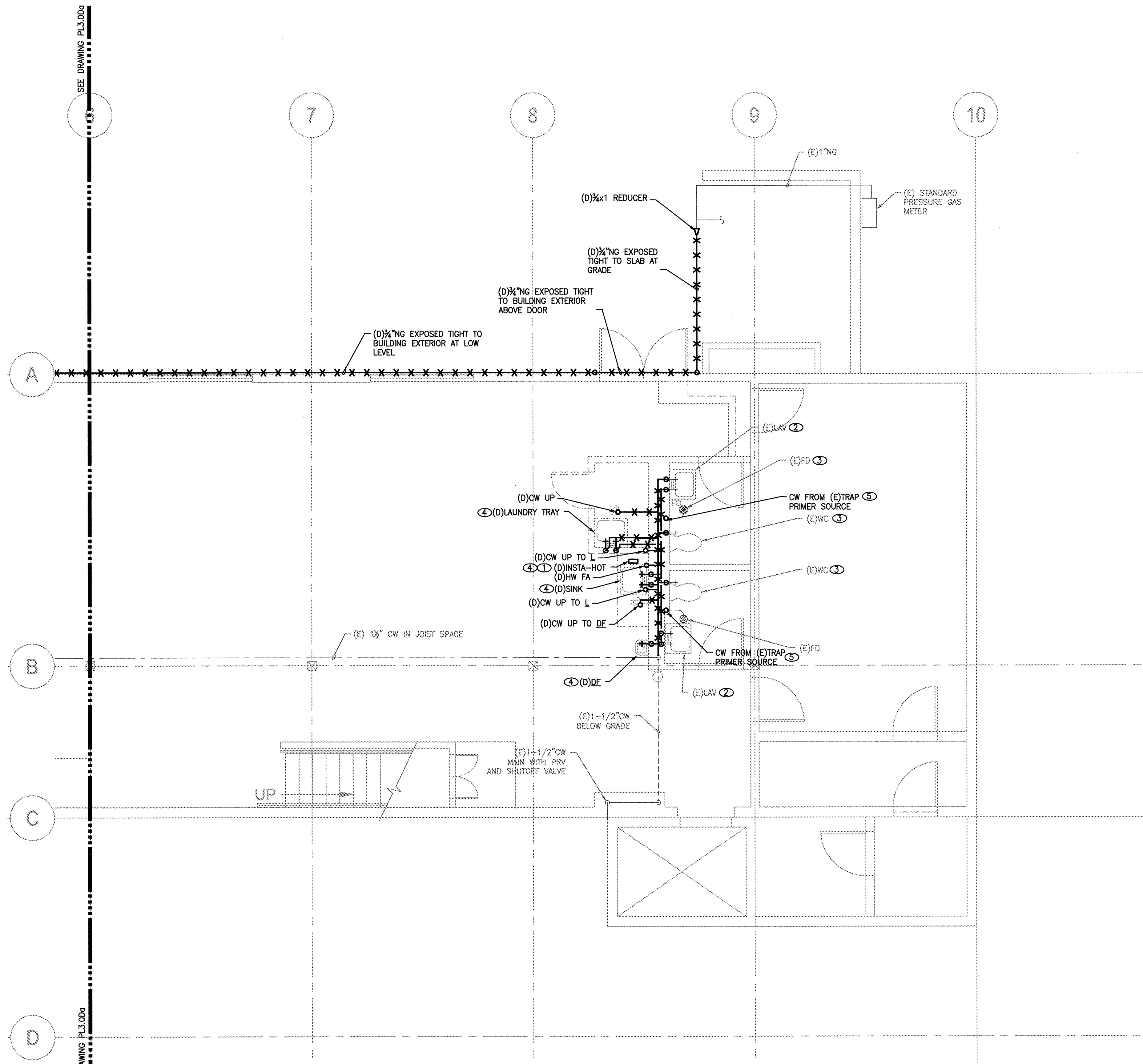


PL3.0Da

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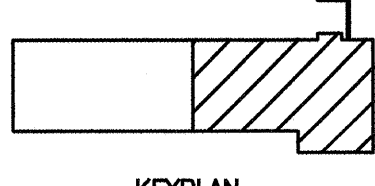
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WATER & GAS PLAN - DEMOLITION - LOWER LEVEL - EAST

SCALE: 1/4" = 1'-0"

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KEY PLAN

1/4"=1'-0" 2' 0 5' 10'

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- PROVIDE FIRESTOPPING, SLEEVES, AND SEALANTS AT FLOOR, WALL, AND CEILING PENETRATIONS; COORDINATE LOCATIONS WITH GC.

KEYED NOTES

- COORDINATE DEMO OF POWER CONNECTION WITH DIV. 16.
- REMOVE (E) CW/HW STOPS FOR INSTALLATION.
- REMOVE AND REINSTALL (E) FLUSH VALVE TO ACCOMMODATE NEW FLOORING; COORDINATE WITH GC PRIOR TO COMMENCEMENT OF WORK.
- DEMO PLUMBING FIXTURE AND ASSOCIATED WATER BRANCHES. CAP PIPING TO BE CONCEALED BY FINISH WORK.
- CONTRACTOR TO LOCATE TRAP PRIMER SOURCE PRIOR TO COMMENCEMENT OF WORK.



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WATER & GAS PLAN
DEMOLITION - LOWER LEVEL - EAST

PROJECT NAME

DATE: 09.20.07

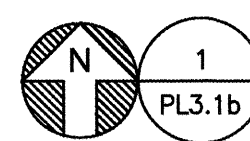
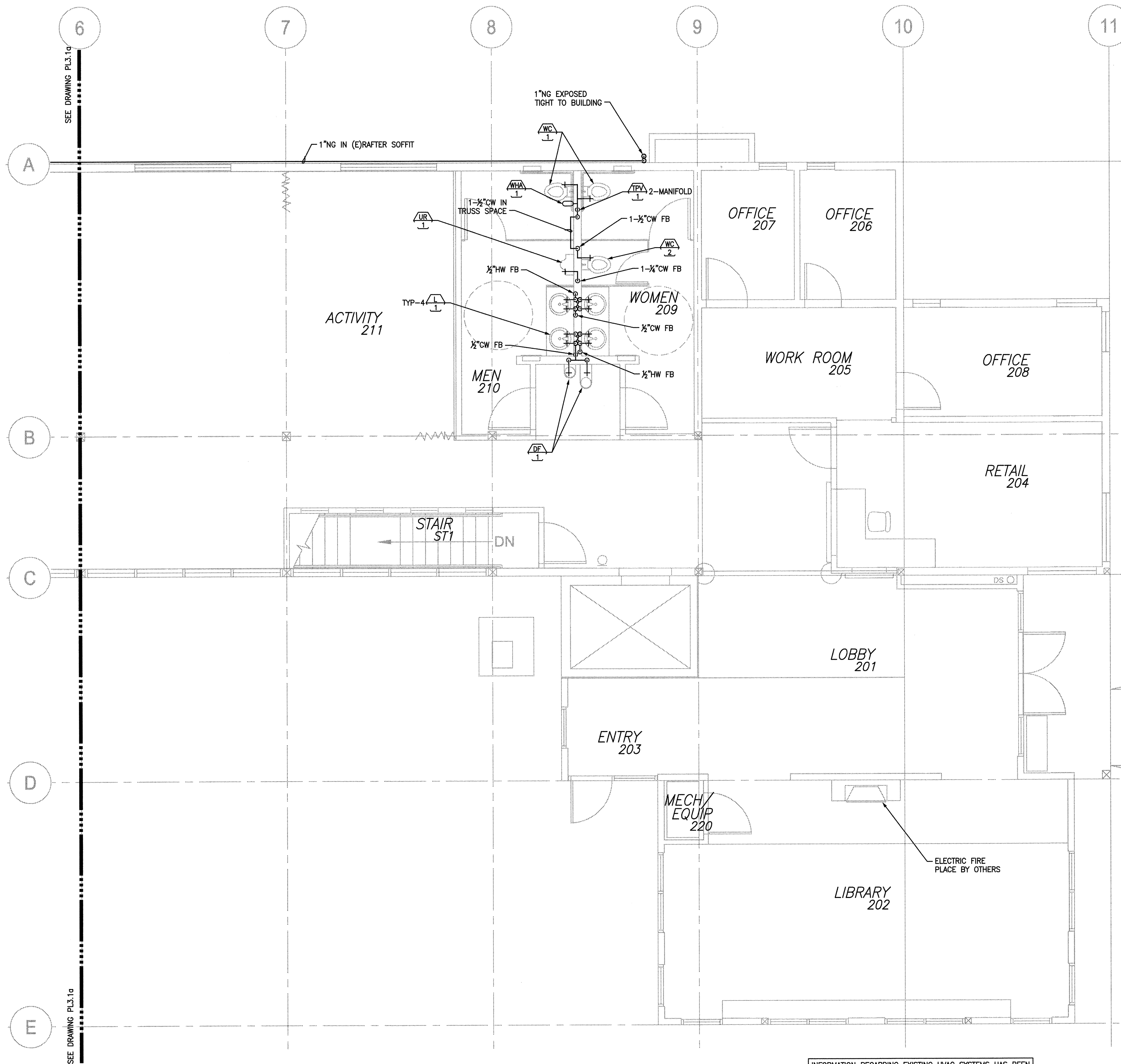
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PL3.0Db

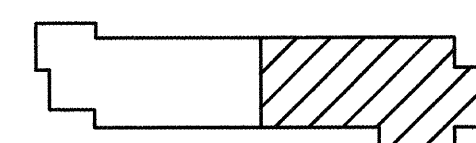
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WATER & GAS PLAN - UPPER LEVEL - EAST

SCALE: 1/4" = 1'-0"

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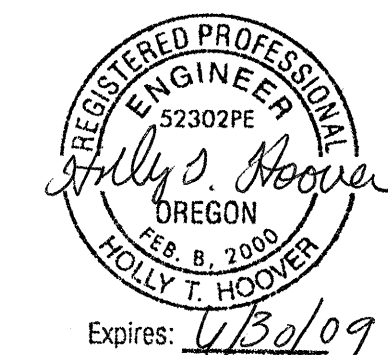


KEYPLAN

1/4"=1'-0" 2' 0 5' 10'

GENERAL NOTES

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**WATER & GAS PLAN
UPPER LEVEL - EAST**

PROJECT NAME

DATE: 09.20.07

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PL3.1b

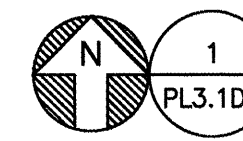
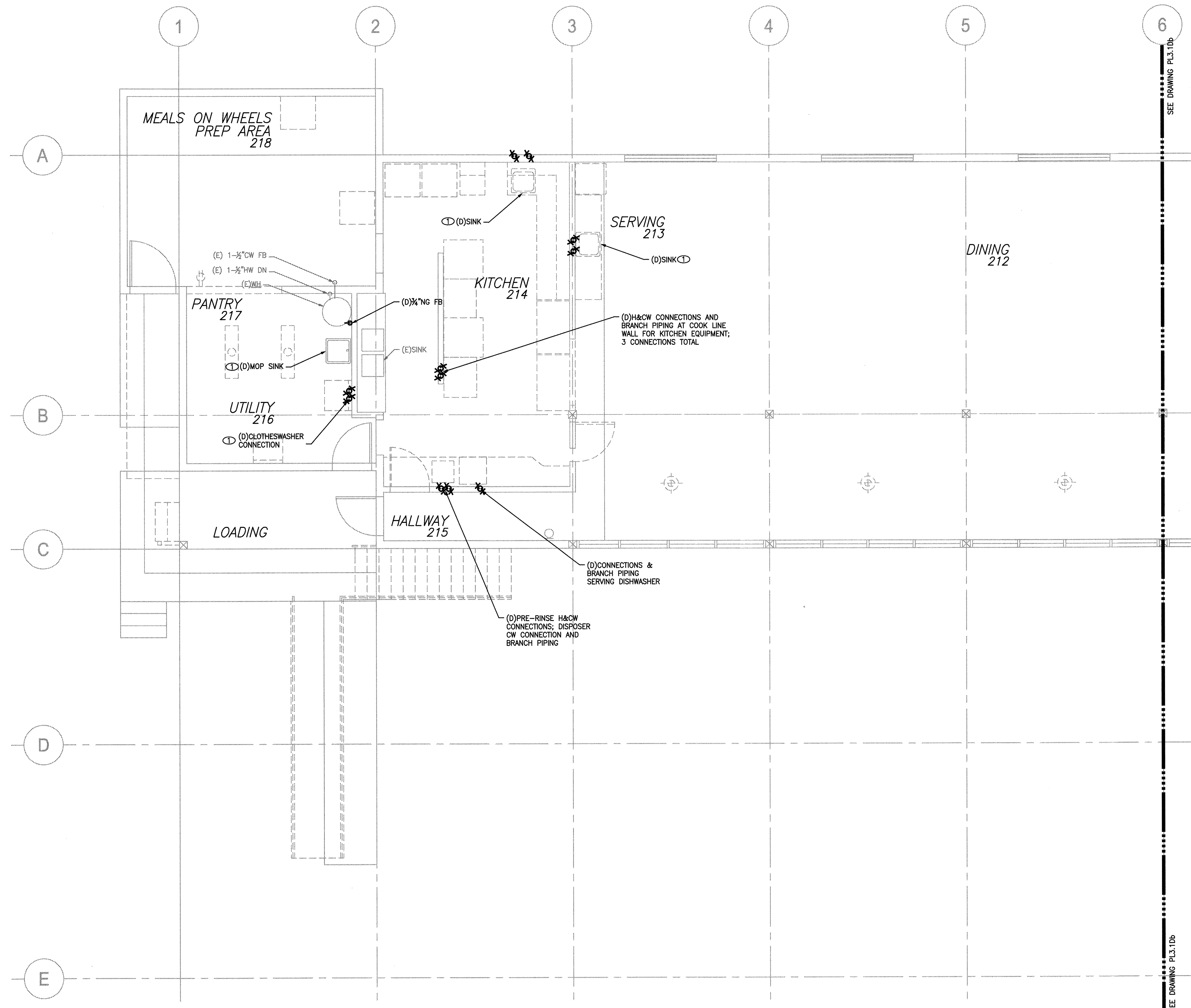
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A

B

C

D



WATER & GAS PLAN - DEMOLITION - UPPER LEVEL - WEST
SCALE: 1/4" = 1'-0"

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 - F. PROVIDE FIRESTOPPING, SLEEVES, AND SEALANTS AT FLOOR, WALL, AND CEILING PENETRATIONS; COORDINATE LOCATIONS WITH GC.
- KEYED NOTES**
- (D) DEMO PLUMBING FIXTURE AND ASSOCIATED WATER BRANCHES.



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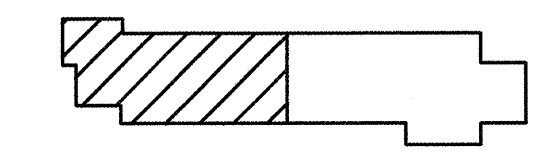
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DEMOLITION - UPPER LEVEL - WEST**

PROJECT NAME

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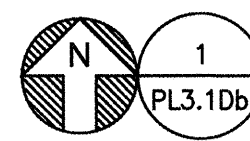
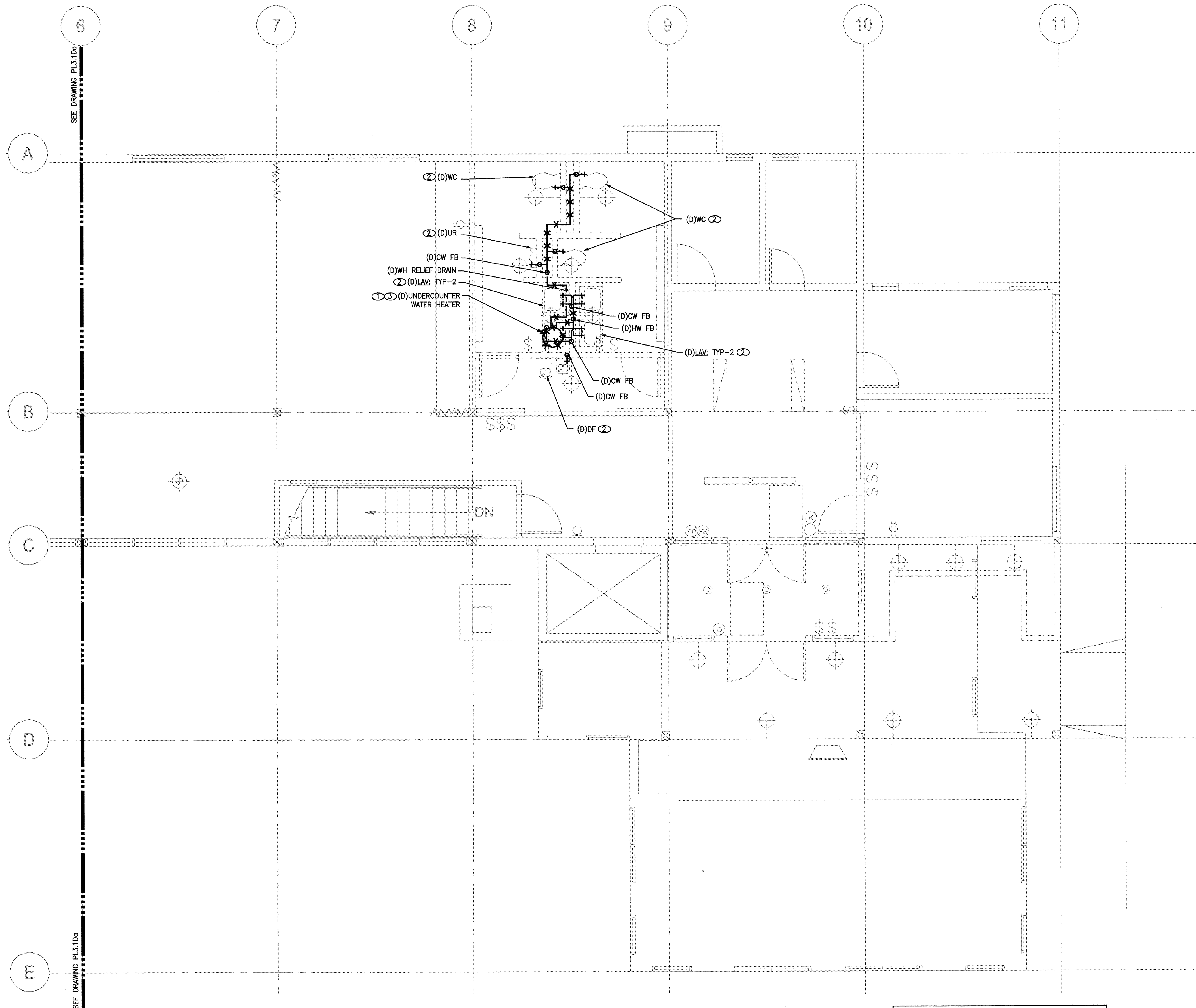


KEYPLAN

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PL3.1Da

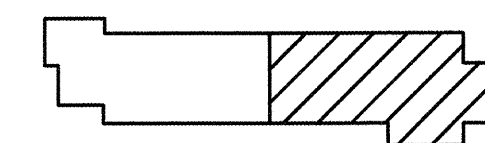
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WATER & GAS PLAN - DEMOLITION - UPPER LEVEL - EAST

SCALE: 1/4" = 1'-0"

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KEYED NOTES

- COORDINATE DEMOLITION OF POWER BRANCH FEEDER WITH DIV. 16.
- DEMO PLUMBING FIXTURE AND ASSOCIATED WATER PIPING BRANCHES.
- DEMO PLUMBING EQUIPMENT AND ASSOCIATED WATER AND DRAIN BRANCHES.



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DEMOLITION - UPPER LEVEL - EAST**

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PL3.1Db

